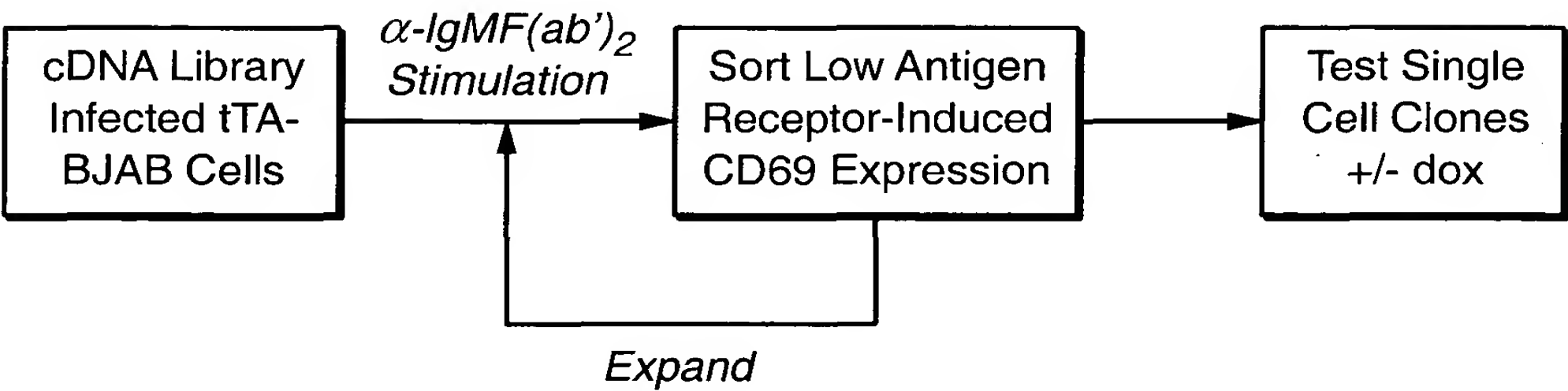
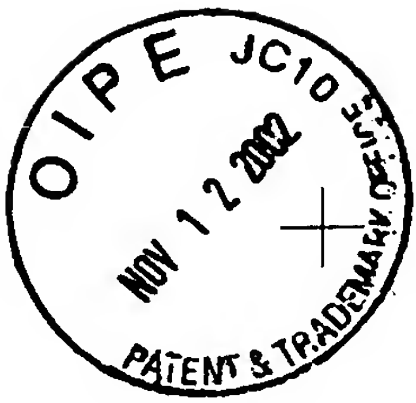


**FIG.\_1A**



**FIG.\_1B**

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SLIM 1 MGSLPSRRKSLPSPSLSSSVQGQGPV<sup>▽</sup>TMEERSKATAVALGSPAGGPAELSLRLGEP<sup>▽</sup>LT  
SLAP 1 MG--NSMKSTPAP--AERP<sup>▽</sup>LPNPEGLDSDFLAVLS<sup>▽</sup>DPSPDISPPIFR<sup>▽</sup>RG<sup>▽</sup>E<sup>▽</sup>KL<sup>▽</sup>LR

SLIM 61 IVSE<sup>▽</sup>DGDWWTVLSEVSGREYNIPSVHVAKVSHGWL<sup>▽</sup>YEGLSREKAEELLLP<sup>▽</sup>GNPGGAFL<sup>▽</sup>I  
SLAP 51 VISDEGGWKAISLS<sup>▽</sup>TGRESYIPGICVARVYHGWL<sup>▽</sup>FEGLGRDKAEELLLP<sup>▽</sup>DTKVGSFM<sup>▽</sup>I

SLIM 121 RESQ<sup>▽</sup>TRRGSYSLSVRLSRPASWDRIRHYRIHCLDNGWL<sup>▽</sup>YISPRLTFFPSLQA<sup>▽</sup>LV<sup>▽</sup>DHYSELA  
SLAP 111 RESE<sup>▽</sup>TKKGFYSLSVRHR--QVKKHYRIFR<sup>▽</sup>LPNNWY<sup>▽</sup>YISPRLTFFQCL<sup>▽</sup>EDLV<sup>▽</sup>NHYSEVA

SLIM 181 DDICCLLKEPCVLQRA<sup>▽</sup>GPLPGKDIPLPVT<sup>▽</sup>QRTPLNWKEL<sup>▽</sup>DSSLLFS<sup>▽</sup>E<sup>▽</sup>ATG--E<sup>▽</sup>ESL  
SLAP 165 DGLCCVL<sup>▽</sup>TPCLTQST<sup>▽</sup>AAPAV<sup>▽</sup>RASSSPVTL<sup>▽</sup>RQKT<sup>▽</sup>VD<sup>▽</sup>WR<sup>▽</sup>VSRLQEDPE<sup>▽</sup>G<sup>▽</sup>TENPLGV<sup>▽</sup>DES<sup>▽</sup>L

SLIM 237 LSEGLRESLSFYISLN-DEAVSL<sup>▽</sup>DDA--  
SLAP 225 FSYGLRESIASYLSL<sup>▽</sup>TSE<sup>▽</sup>DN<sup>▽</sup>TS<sup>▽</sup>FD<sup>▽</sup>RKKK<sup>▽</sup>SI<sup>▽</sup>SLMYGGSKRKSSFFSSPPYFED

FIG.\_2B

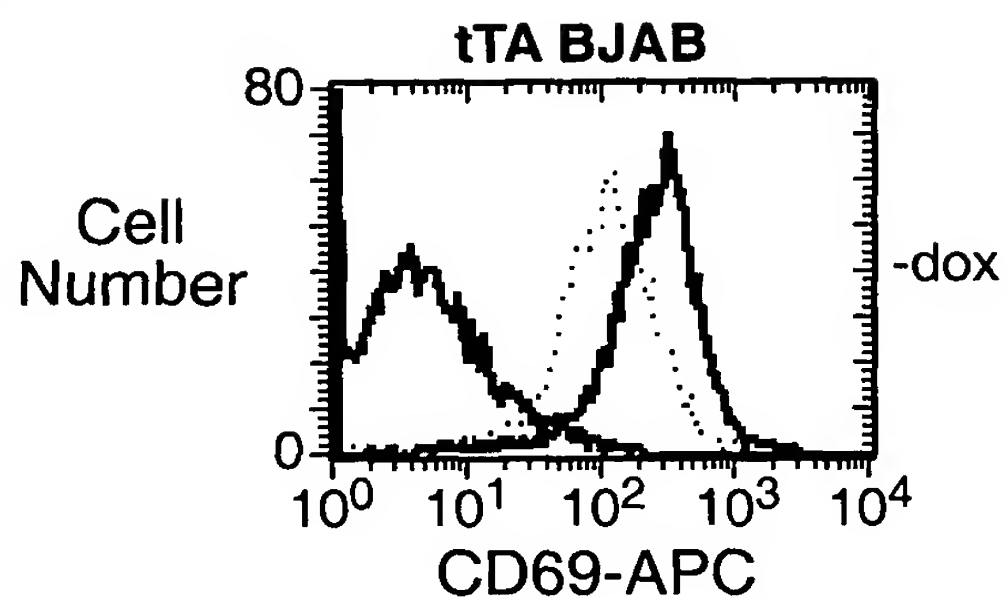




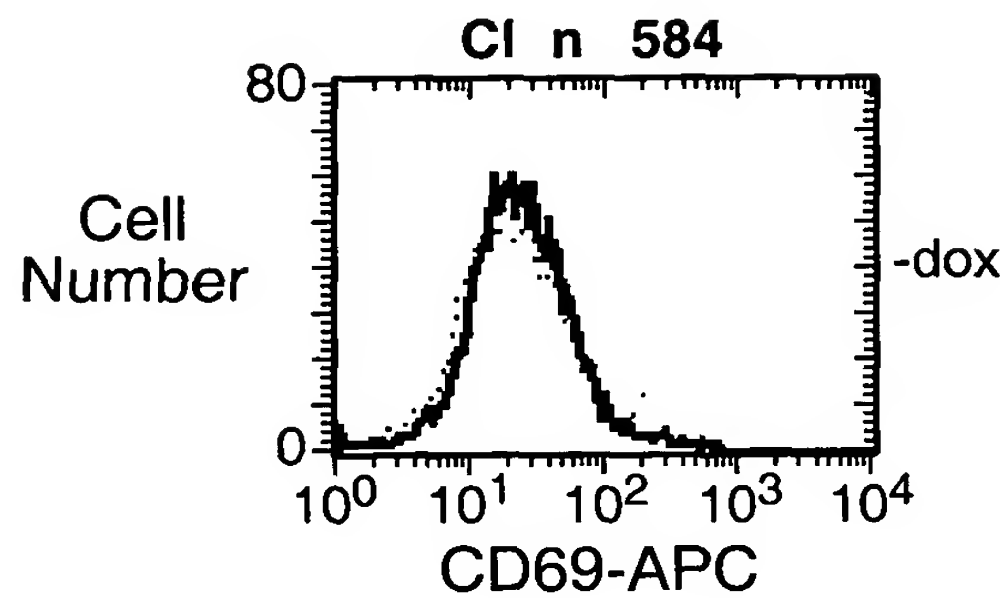
10042640 111303

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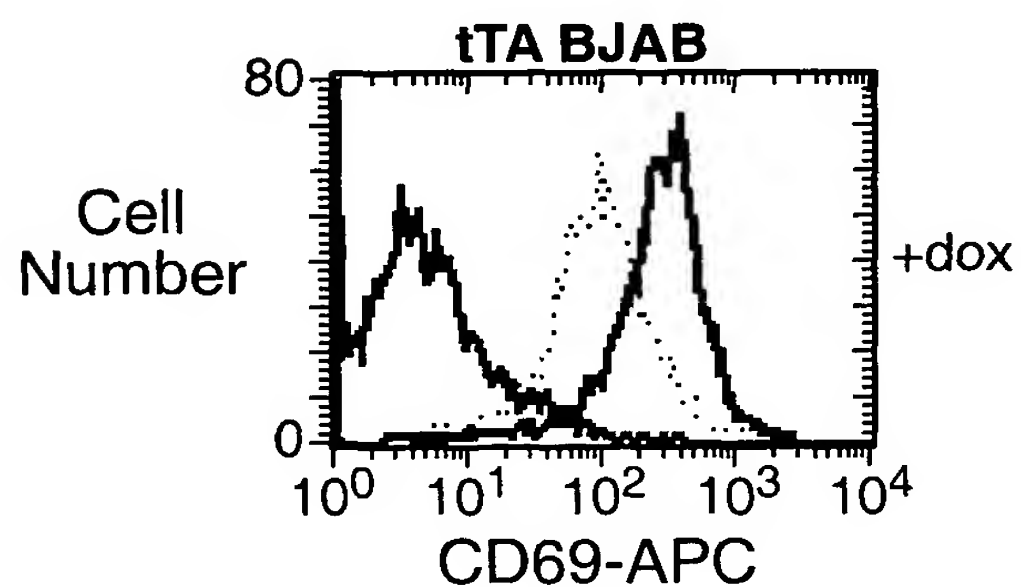
2 / 17



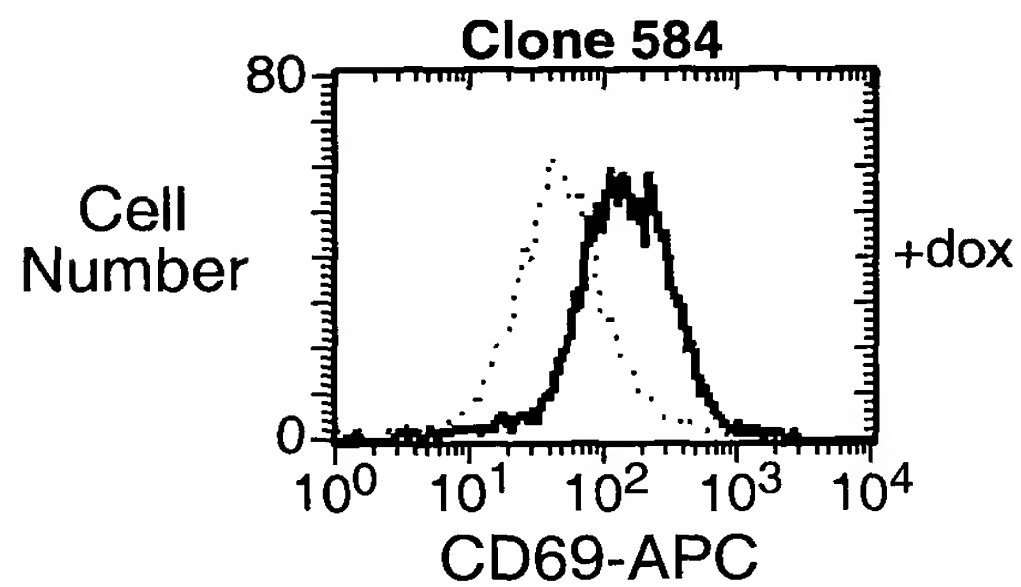
**FIG.\_1C-1**



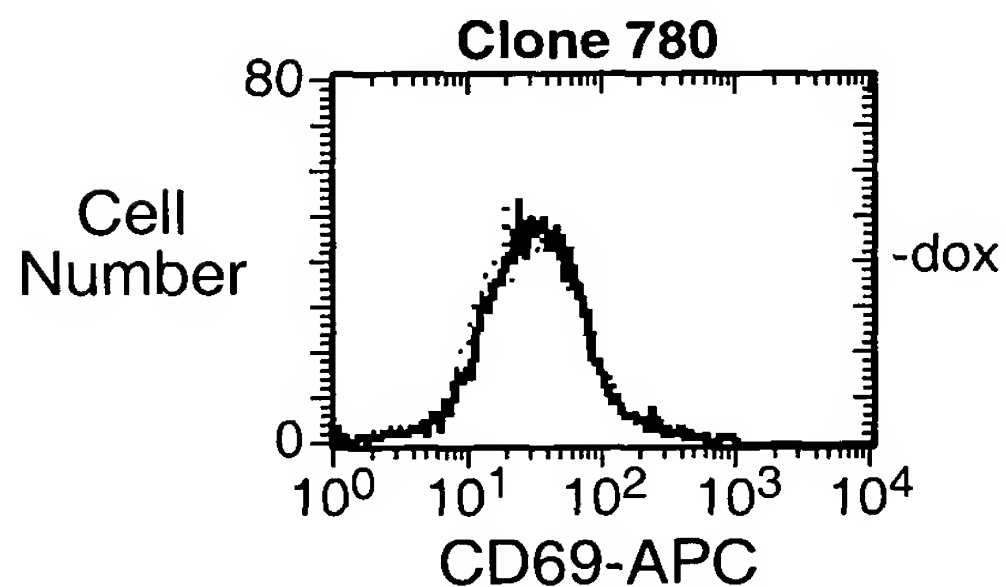
**FIG.\_1C-5**



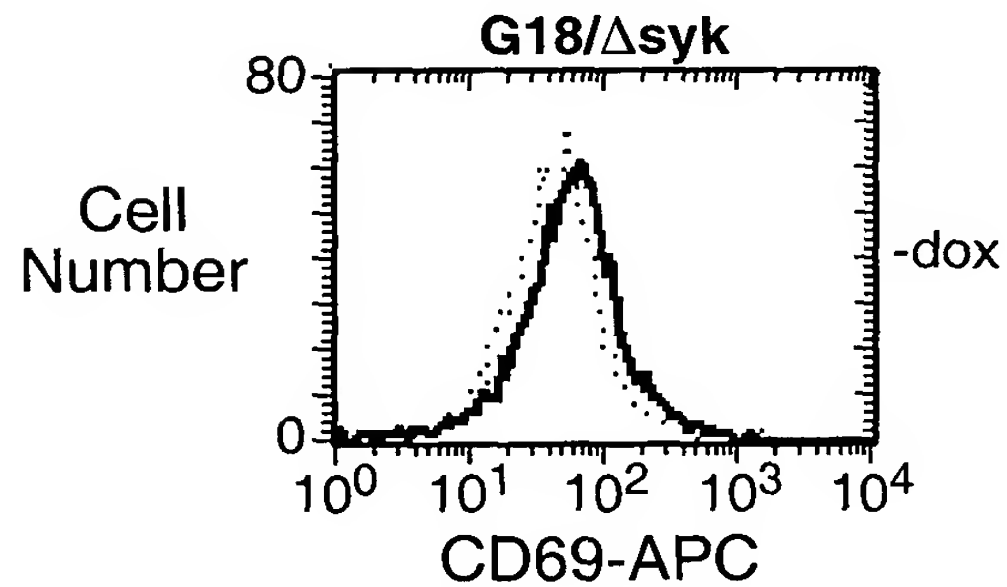
**FIG.\_1C-2**



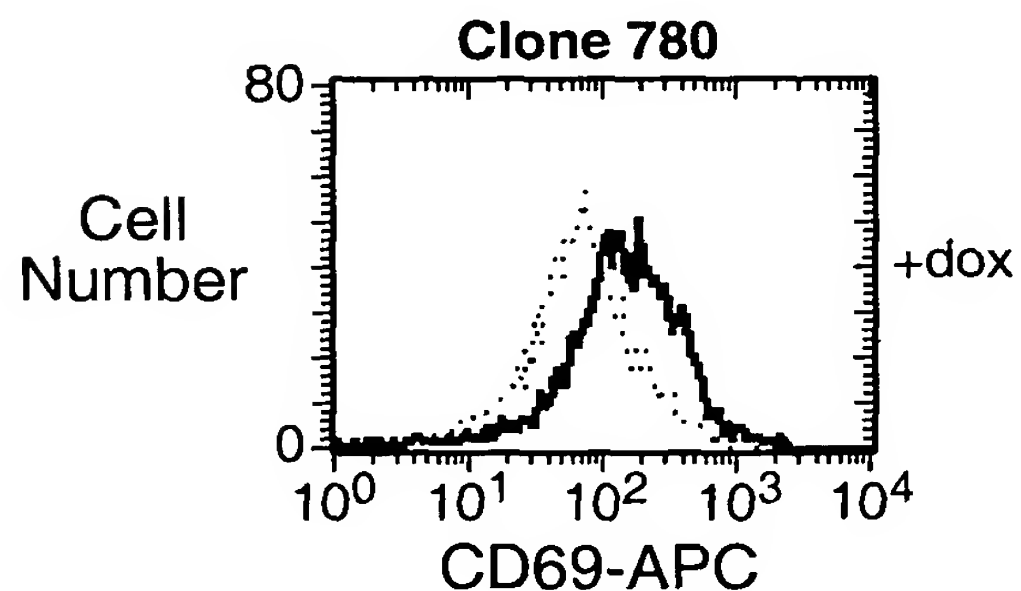
**FIG.\_1C-6**



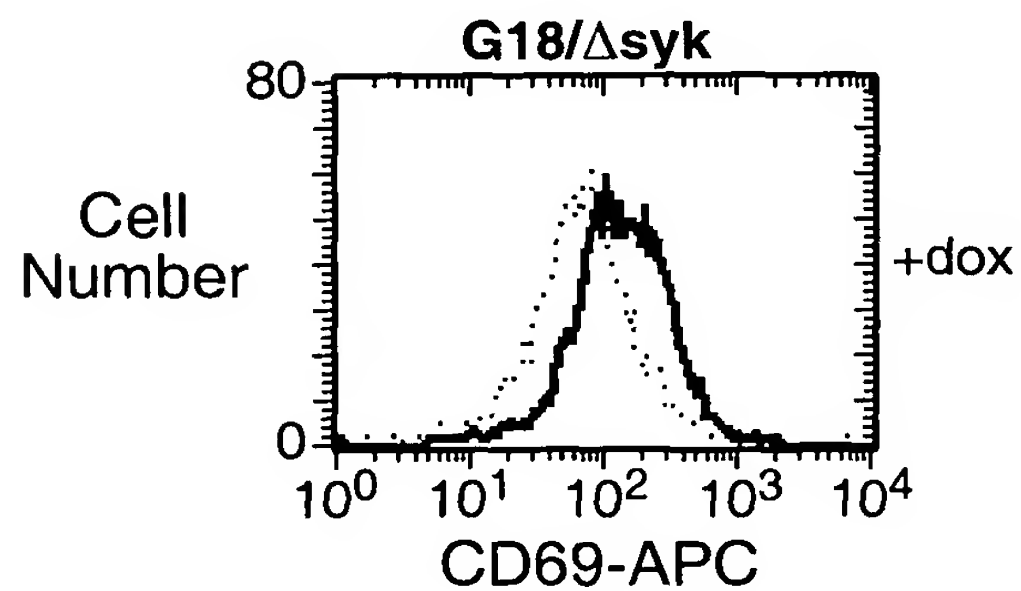
**FIG.\_1C-3**



**FIG.\_1C-7**

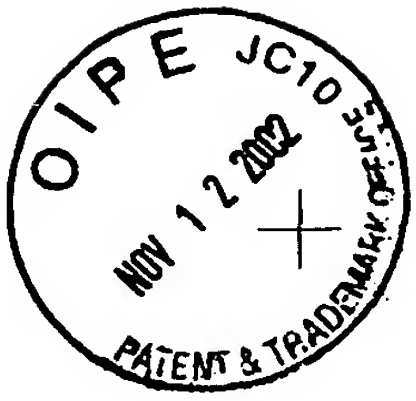


**FIG.\_1C-4**



**FIG.\_1C-8**

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atgggaagtctgcccagcagaagaaaatctctgccaagcccaagcttgagttcctctgtc  
M G S L P S R R K S L P S P S L S S S V  
caaggccagggacctgtgaccatggaagcagagagaagcaaggccacagccgtggccctg  
Q G Q G P V T M E A E R S K A T A V A L  
ggcagtttcccggcaggtggccccggccgagctgtcgtgagactcggggagccattgacc  
G S F P A G G P A E L S L R L G E P L T  
atcgtctctgaggatggagactggtggacggtgctgtctgaagtctcaggcagagagtat  
I V S E D G D W W T V L S E V S G R E Y  
aacatccccagcgtccacgtggccaaagtctcccatgggtggctgtatgagggcctgagc  
N I P S V H V A K V S H G W L Y E G L S  
agggagaaagcagaggaactgctgttggttacctgggaaccctggaggggccttcctcatc  
R E K A E E L L L L P G N P G G A F L I  
cgggagagccagaccaggagaggctcttactctctgtcagtcgcctcagccgccttgca  
R E S Q T R R G S Y S L S V R L S R P A  
tcctgggaccggatcagacactacaggatccactgccttgacaatggctggctgtacatc  
S W D R I R H Y R I H C L D N G W L Y I  
tcaccgcgcctcaccttcccctcactccaggccctgggtggaccattactctgagctggcg  
S P R L T F P S L Q A L V D H Y S E L A  
gatgacatctgctgcctactcaaggagccctgtgtcctgcagagggctggcccgcctccct  
D D I C C L L K E P C V L Q R A G P L P  
ggcaaggatatacccctacctgtgactgtgcagaggacaccactcaactggaaagagctg  
G K D I P L P V T V Q R T P L N W K E L  
gacagctccctcctgttttctgaagctgccacaggggaggagtctcttctcagtgagggg  
D S S L L F S E A A T G E E S L L S E G  
ctccgggagtcctcagcttctacatcagcctgaatgacgaggctgtctcttttgatgat  
L R E S L S F Y I S L N D E A V S L D D

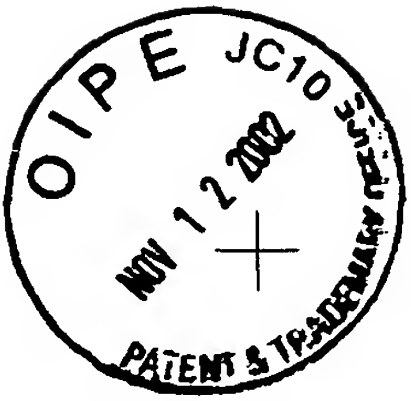
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gcctag

A \*

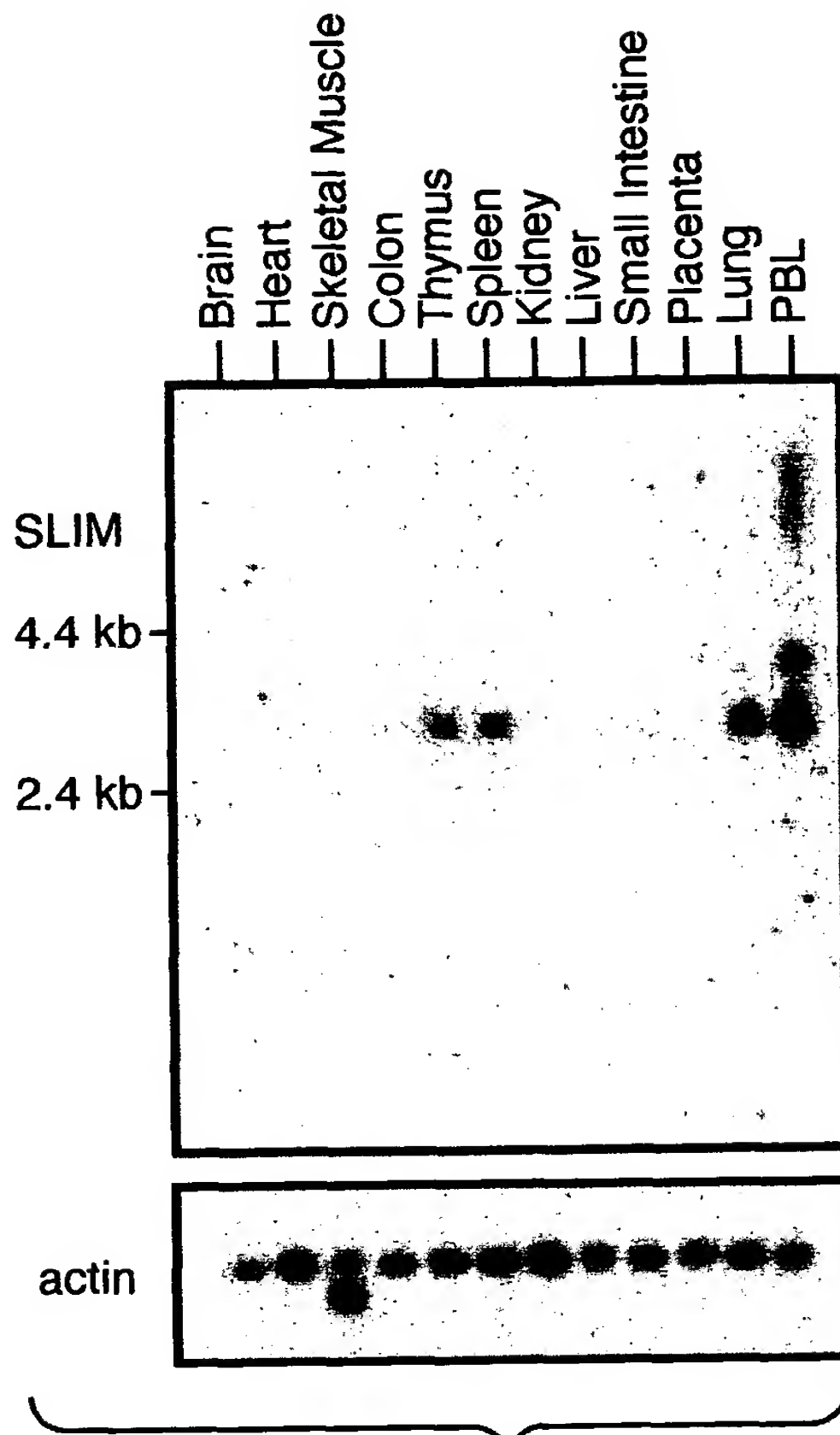
**FIG.\_2A**

+

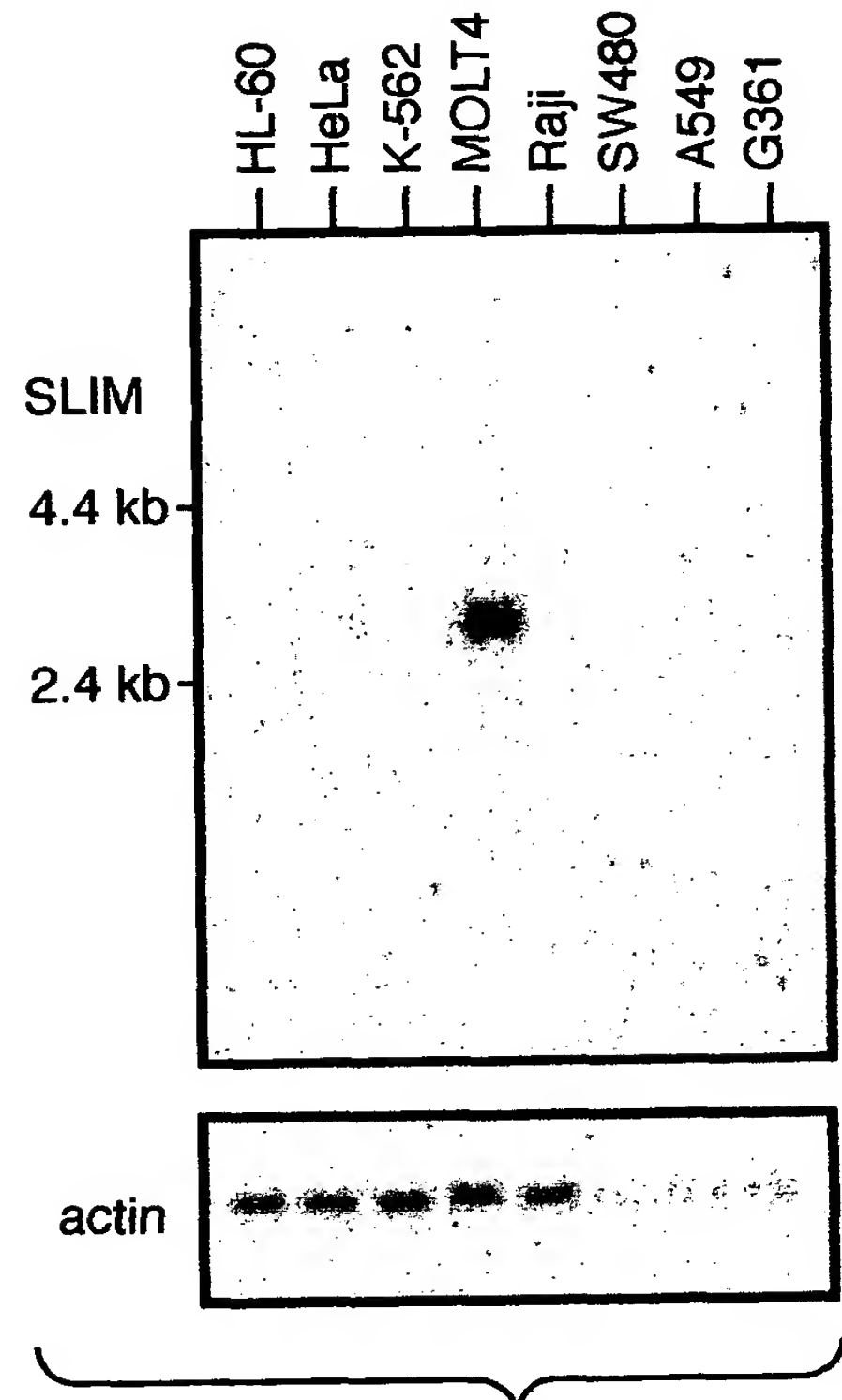


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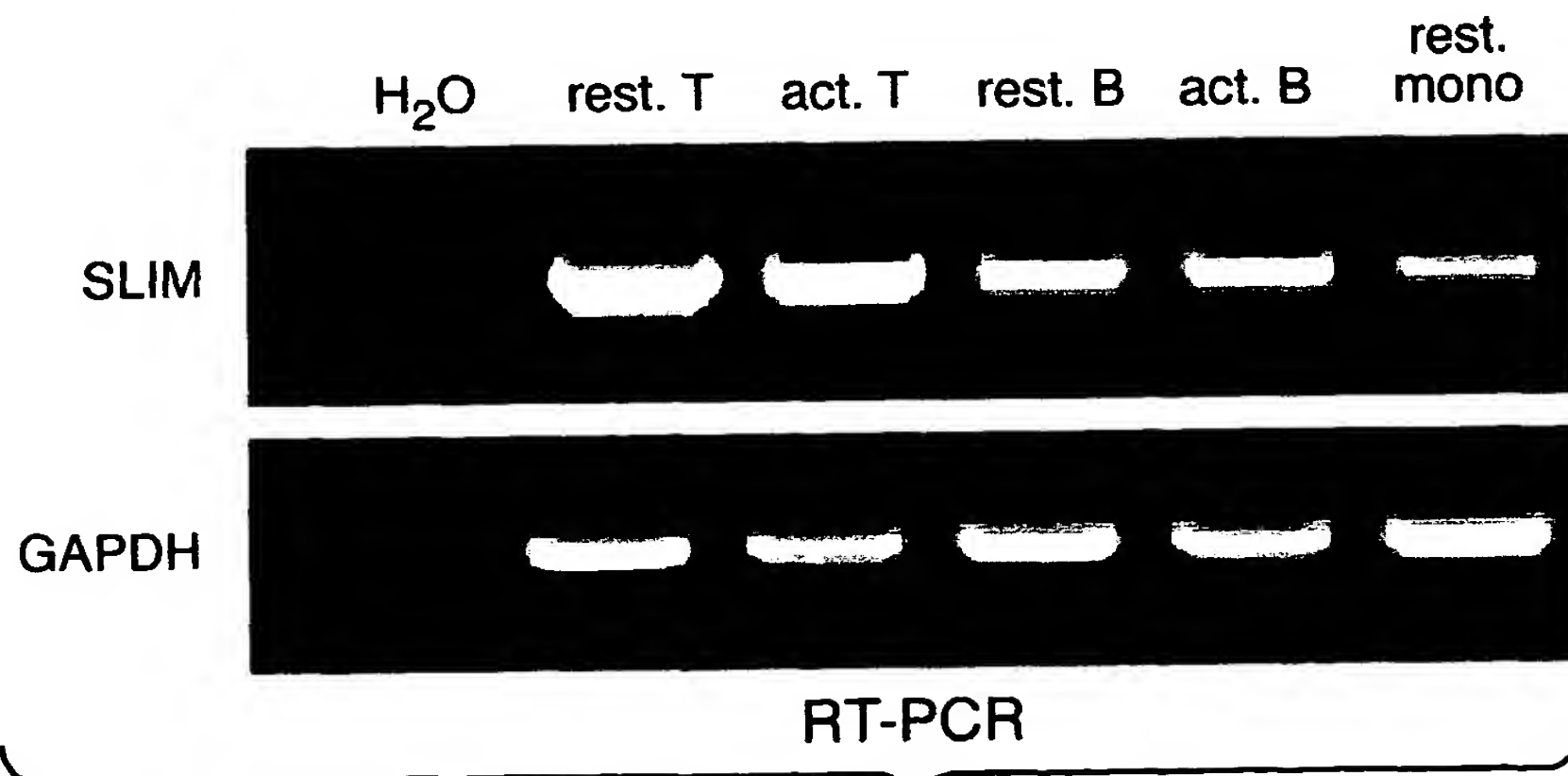
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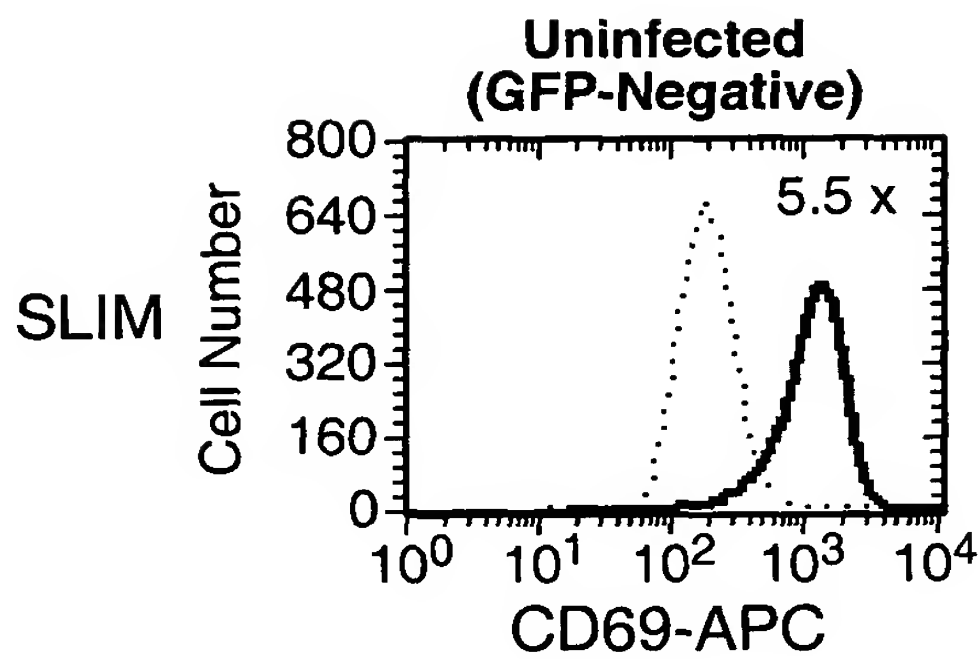
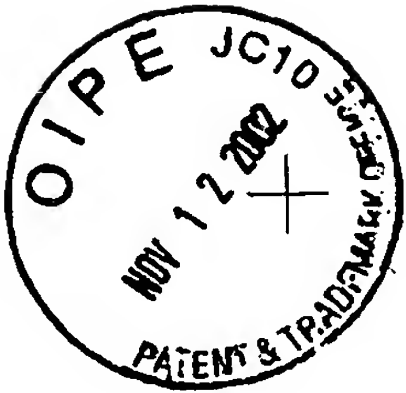
**FIG.\_2C-1**



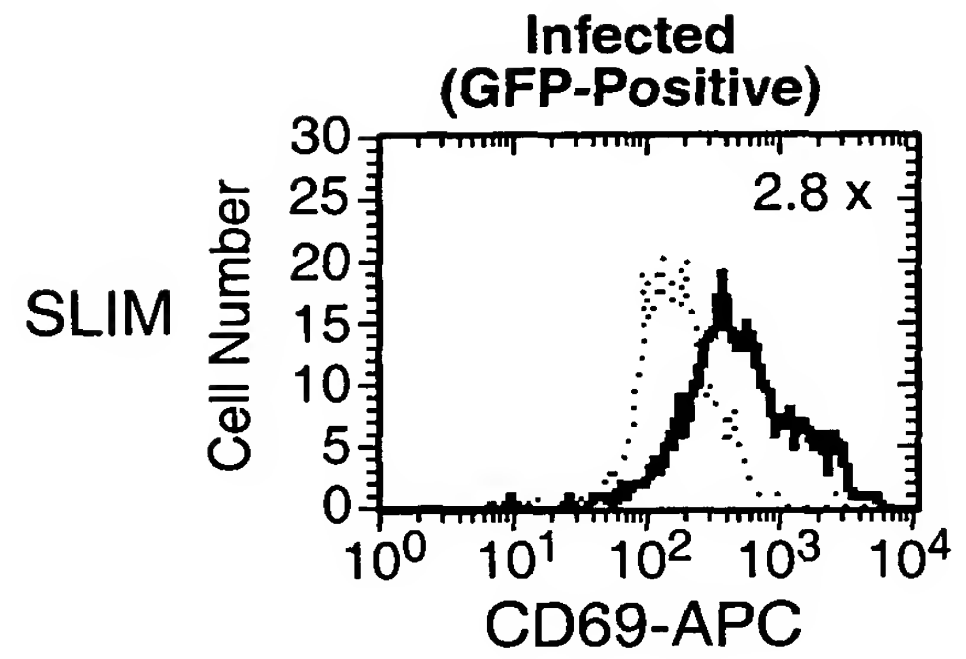
**FIG.\_2C-2**



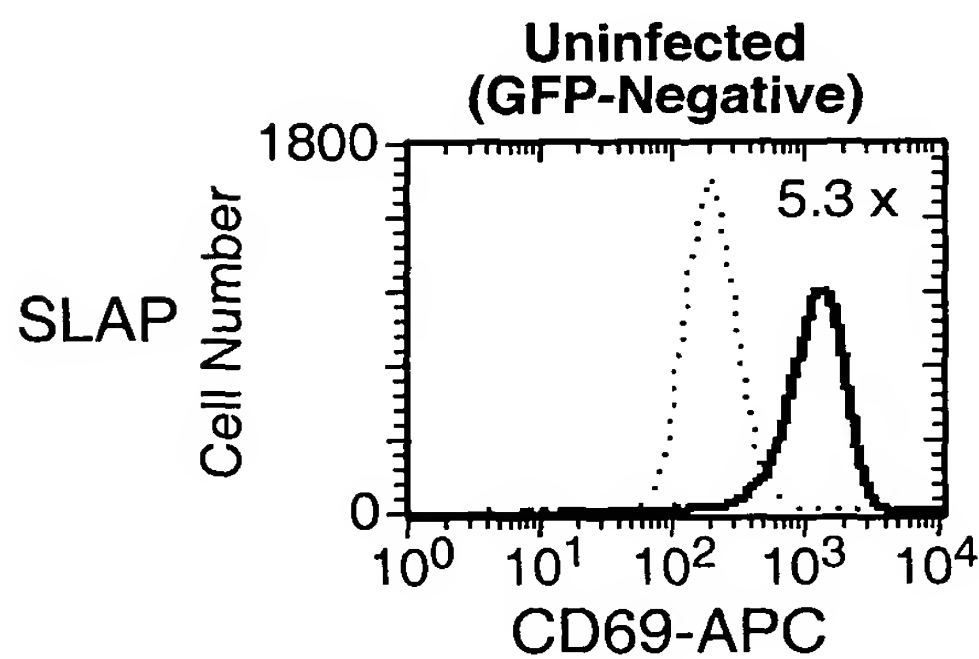
**FIG.\_2D**



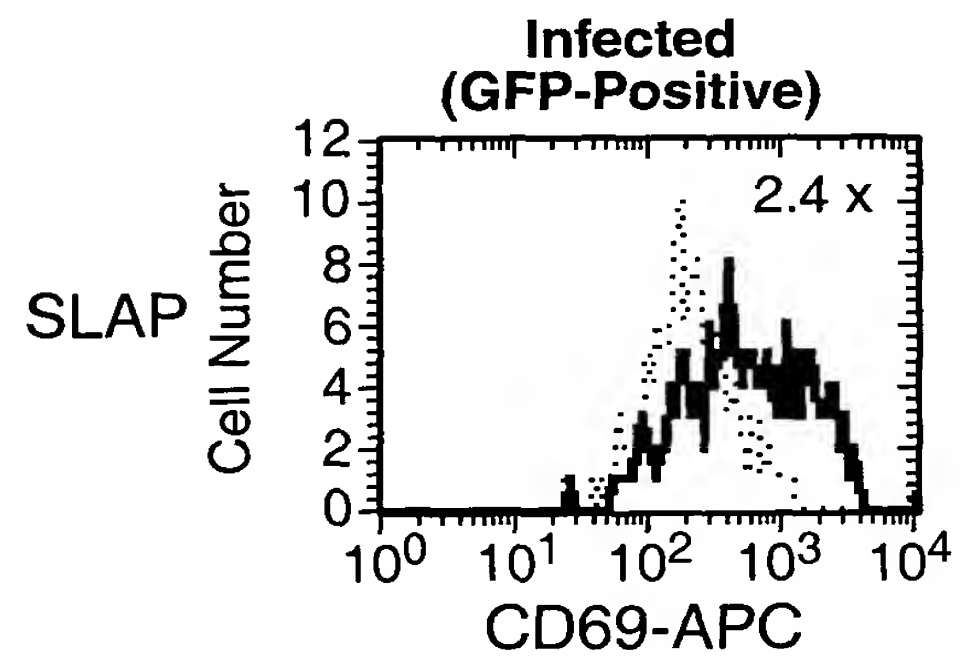
**FIG.\_3A-1**



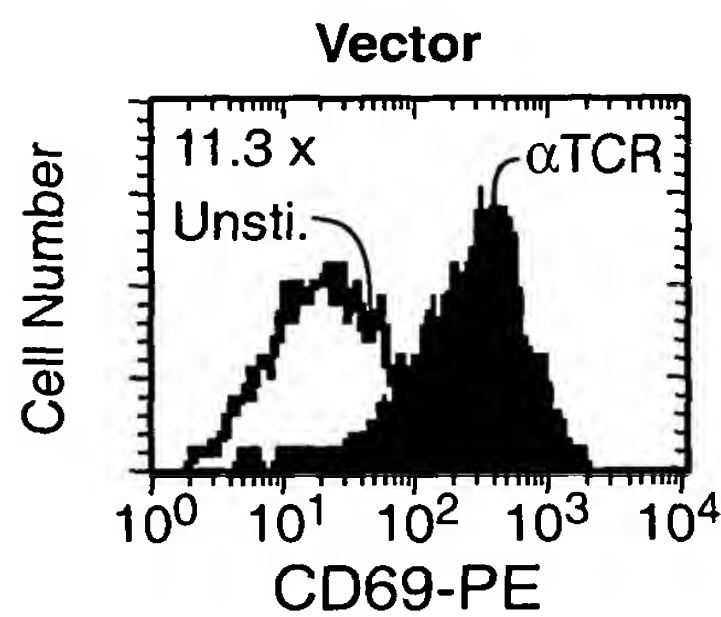
**FIG.\_3A-2**



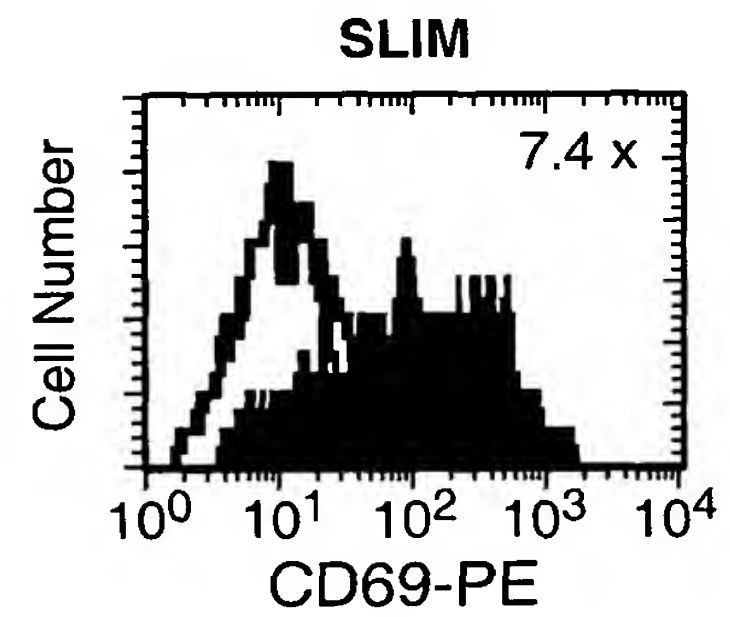
**FIG.\_3A-3**



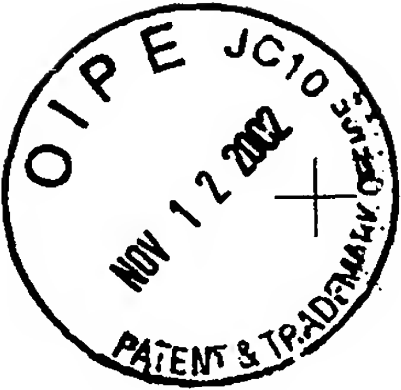
**FIG.\_3A-4**



**FIG.\_3B-1**



**FIG.\_3B-2**



CD69 Geometric Mean

|        | unsti. | $\alpha$ TCR | PMA |
|--------|--------|--------------|-----|
| Vector | 18     | 205          | 482 |
| SLIM   | 11     | 82           | 480 |

FIG.\_3B-3

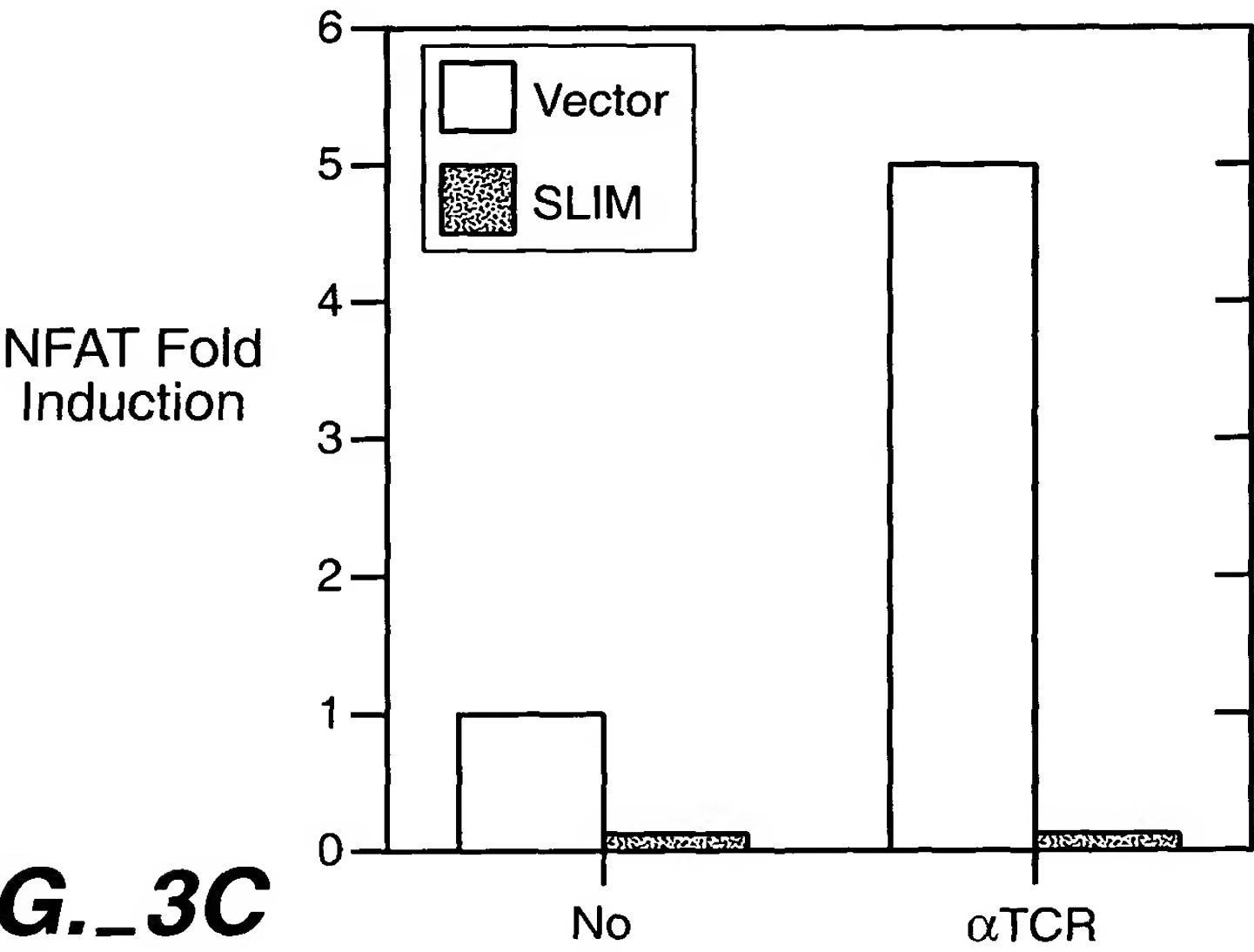


FIG.\_3C

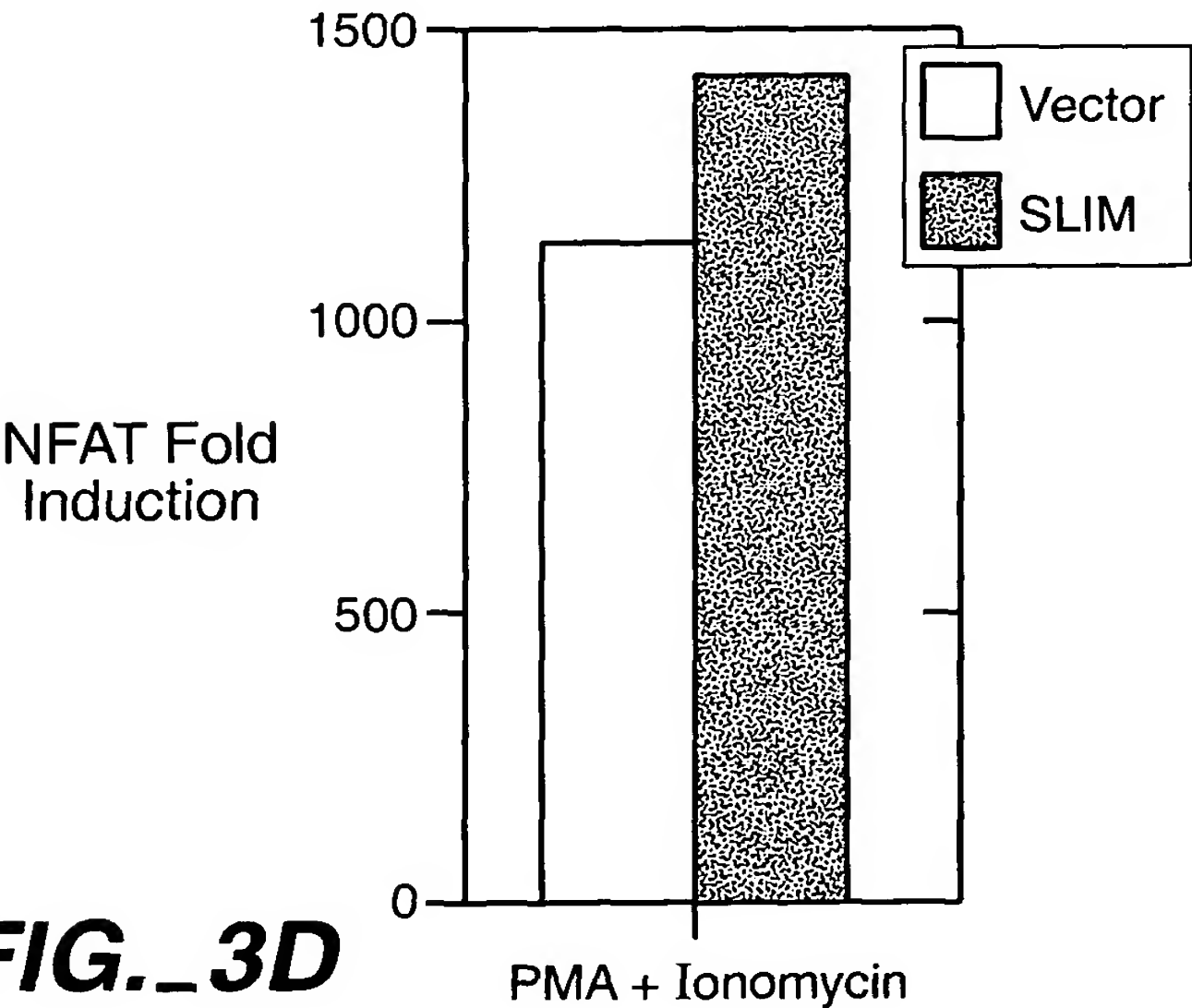
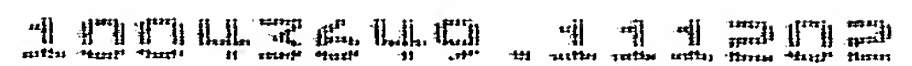
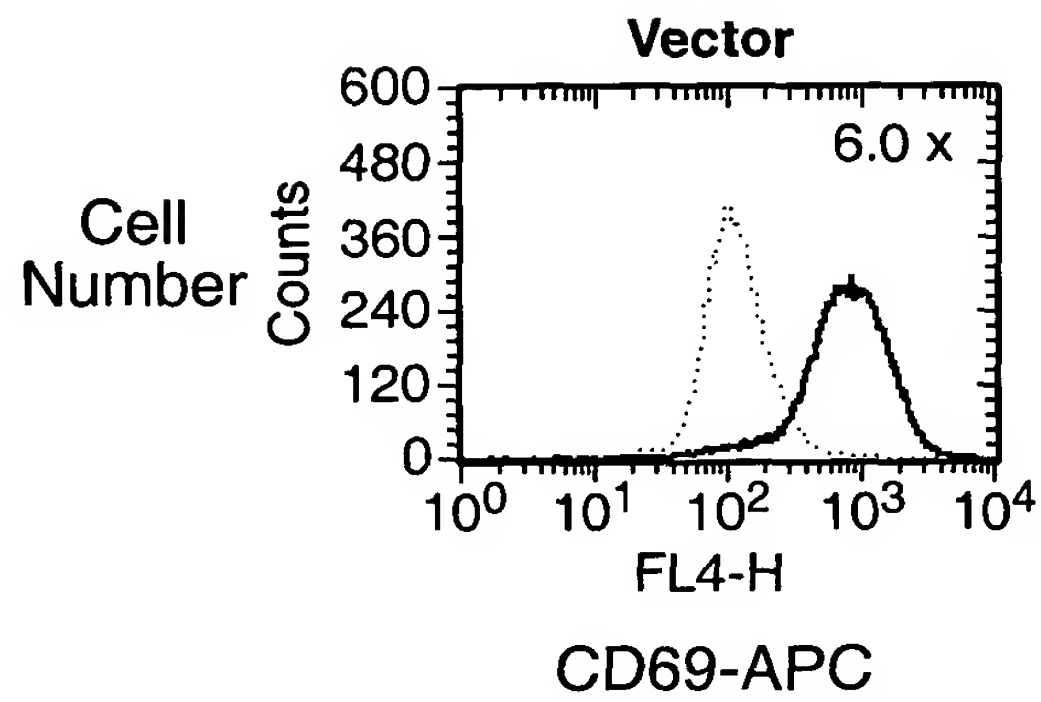


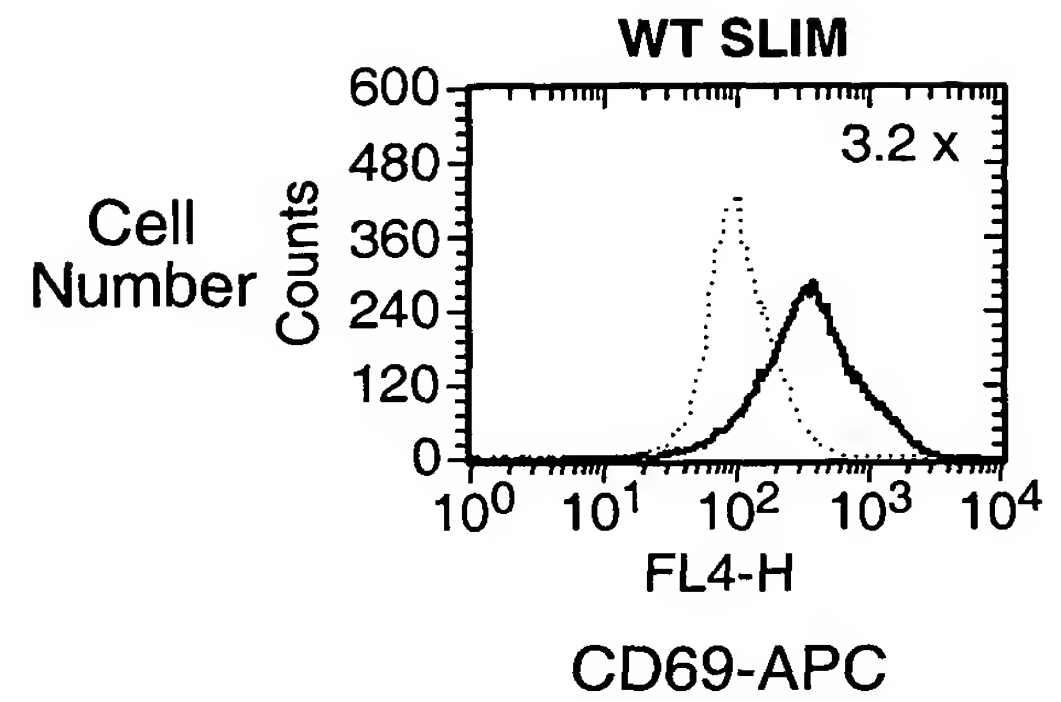
FIG.\_3D



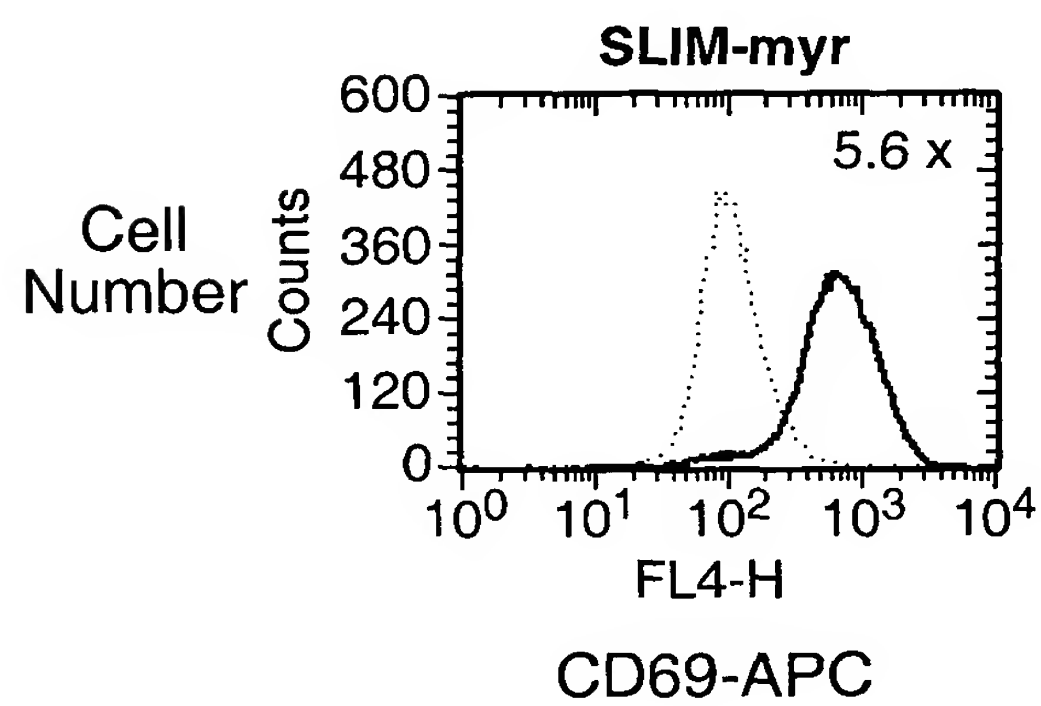
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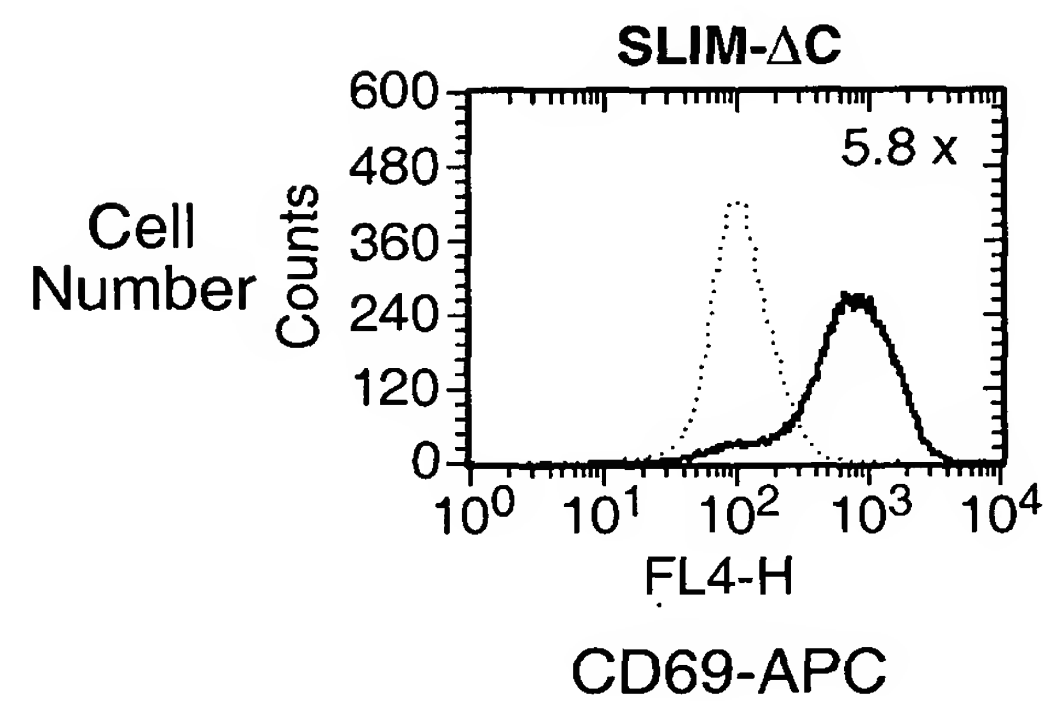
**FIG.\_4A-1**



**FIG. 4A-2**



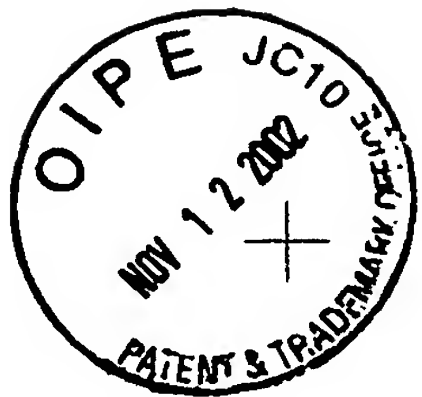
**FIG.\_4A-3**



**FIG.\_4A-4**

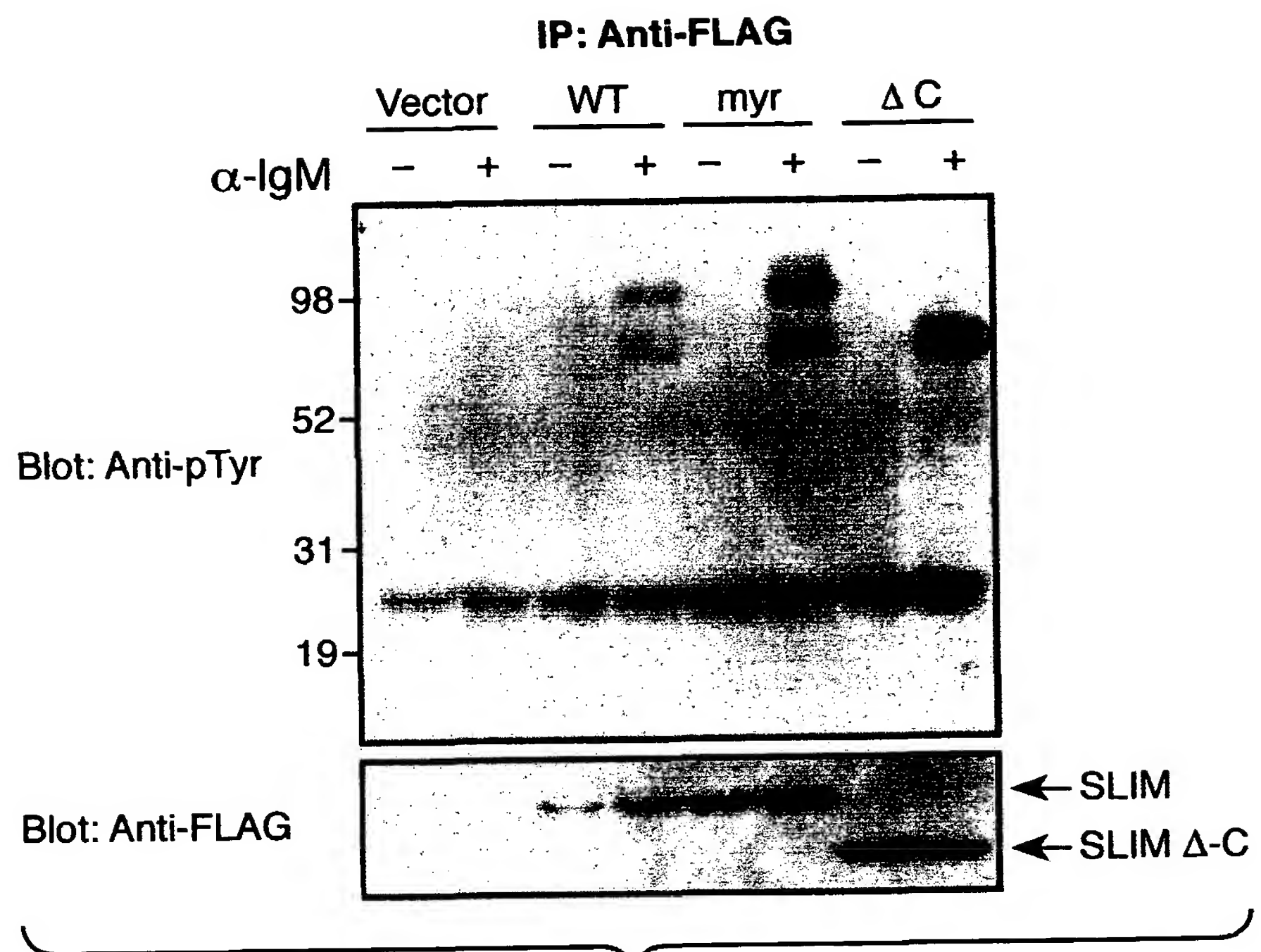
+



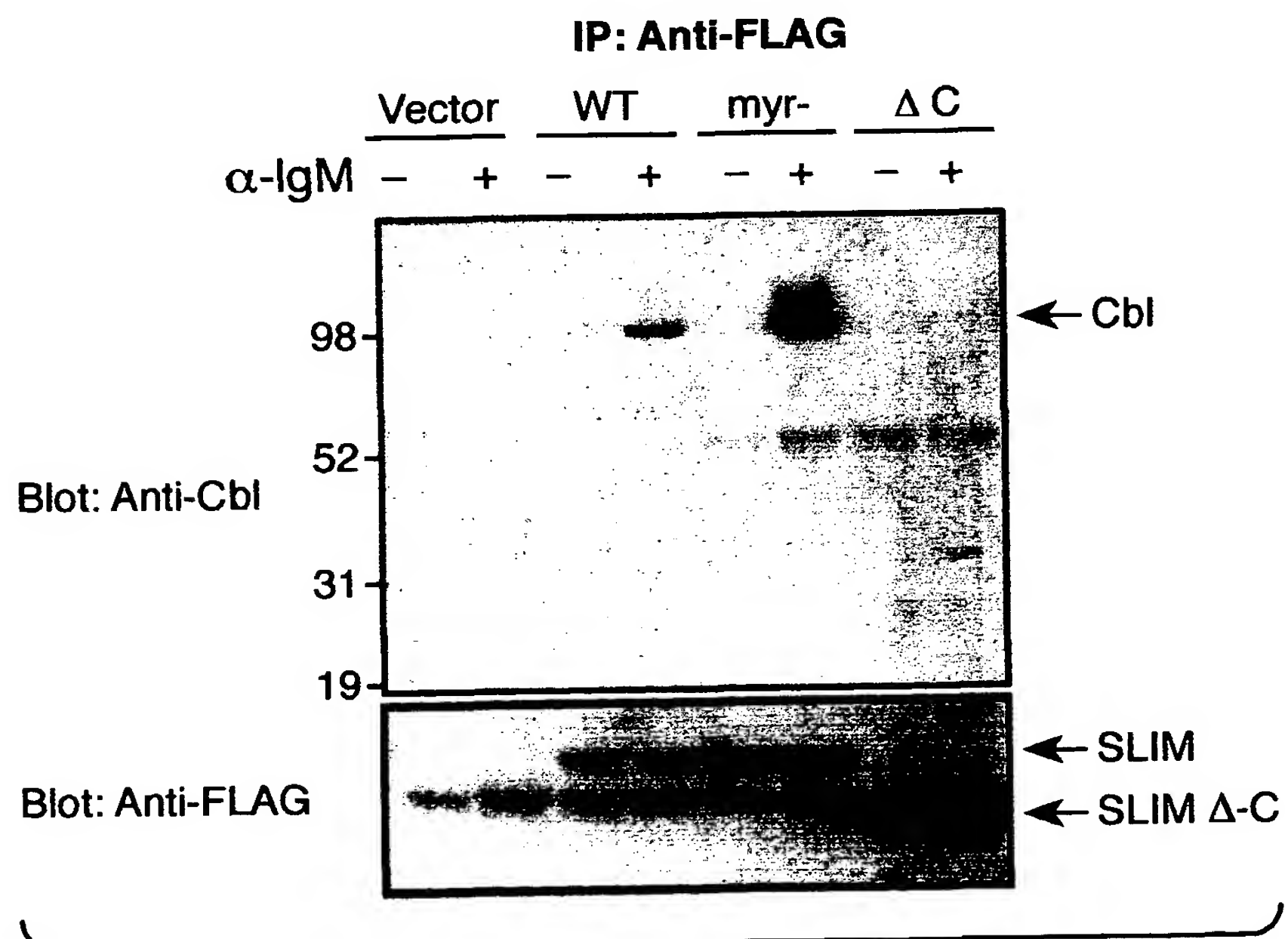


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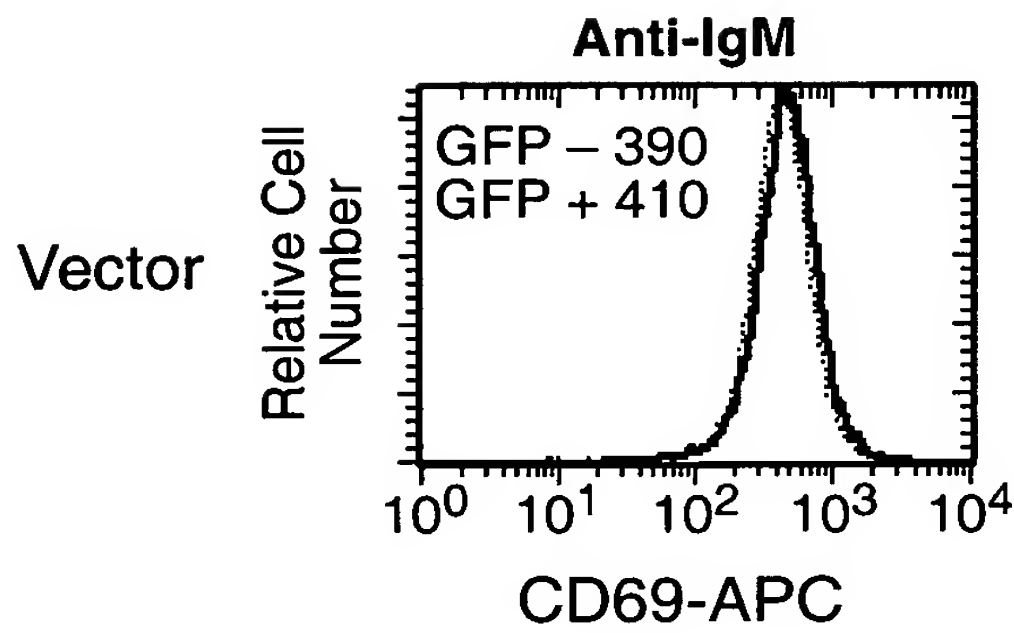
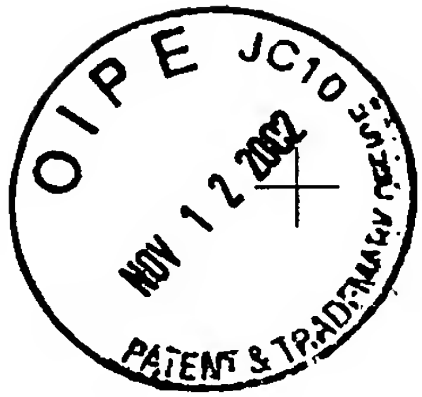
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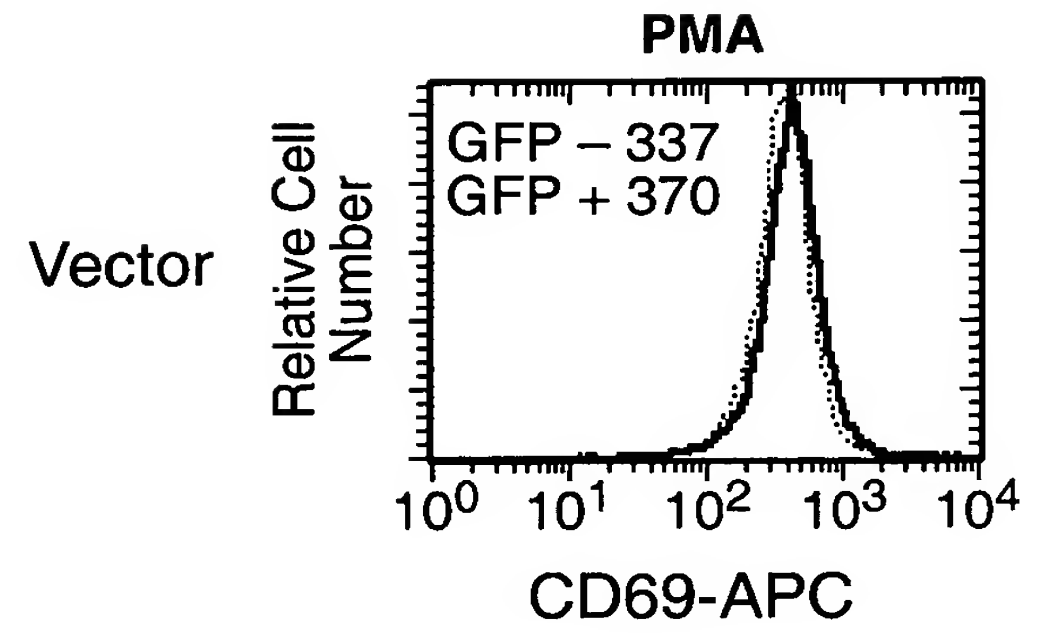
**FIG.\_5A**



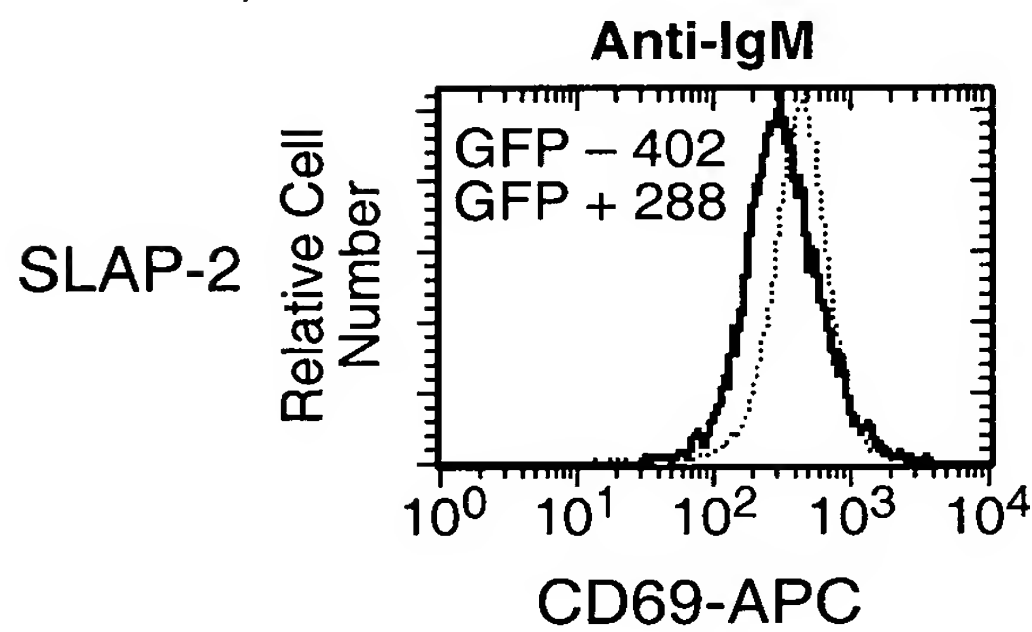
**FIG.\_5B**



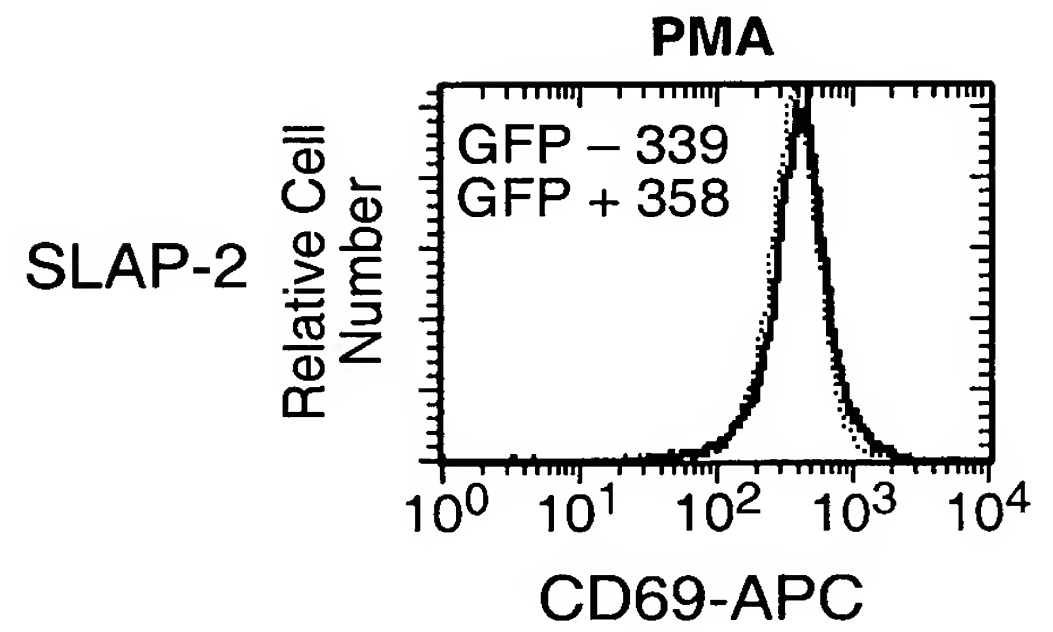
**FIG.\_6A-1**



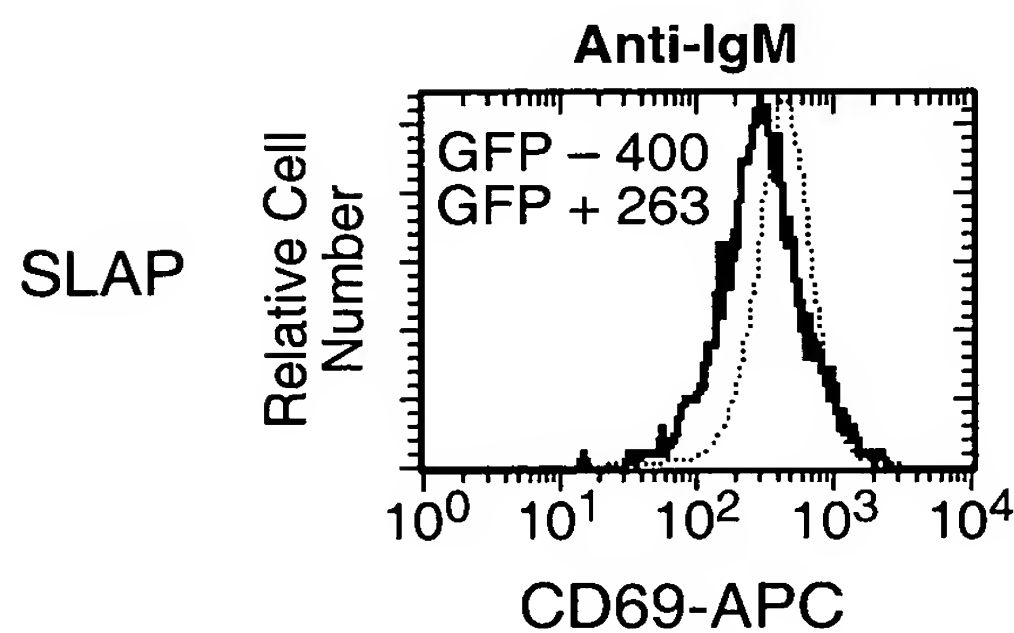
**FIG.\_6A-2**



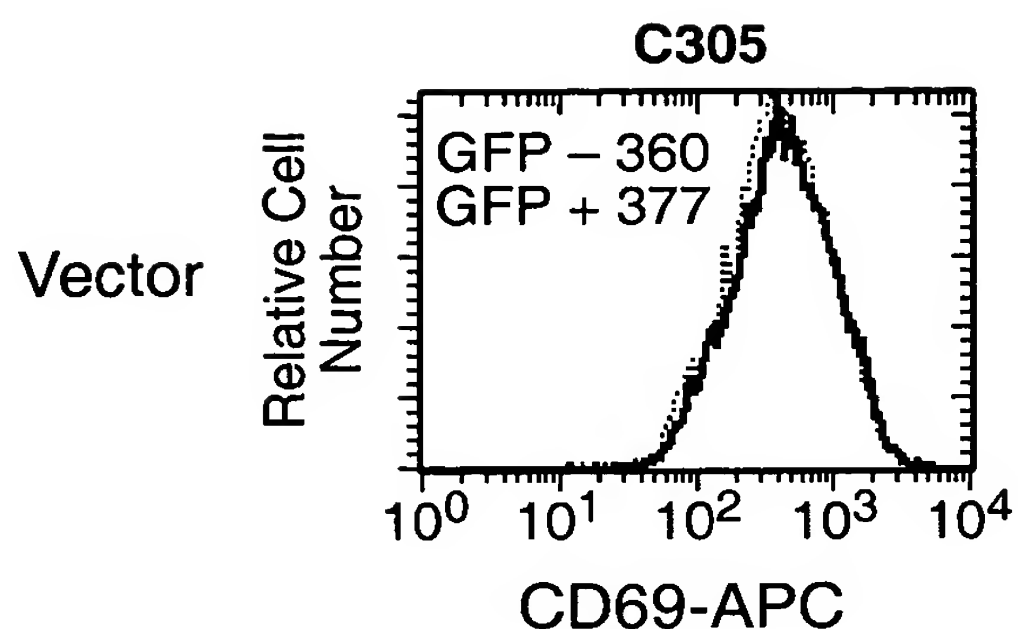
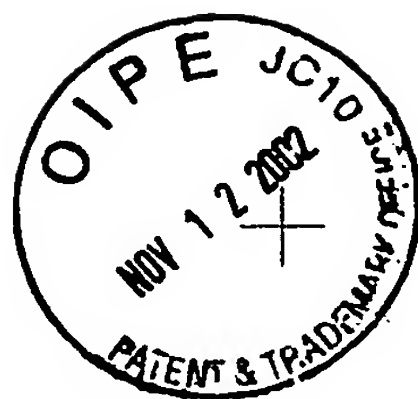
**FIG.\_6A-3**



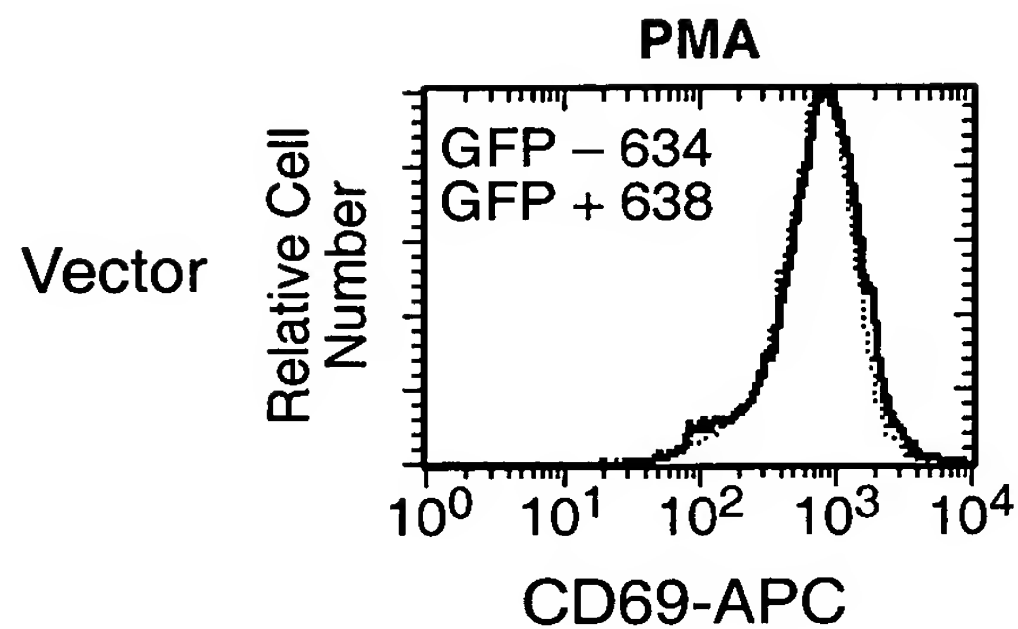
**FIG.\_6A-4**



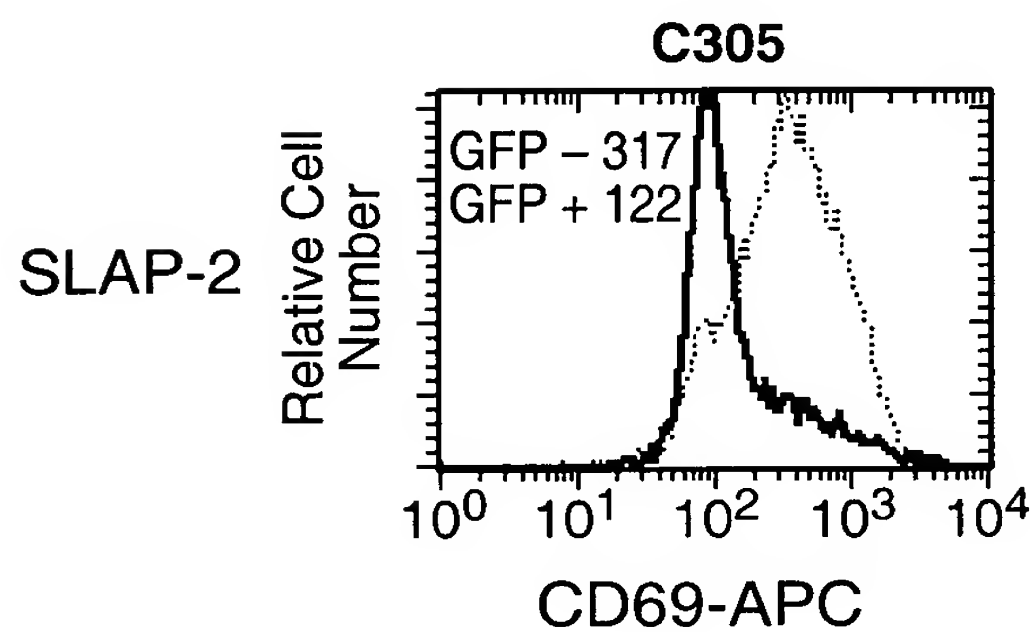
**FIG.\_6A-5**



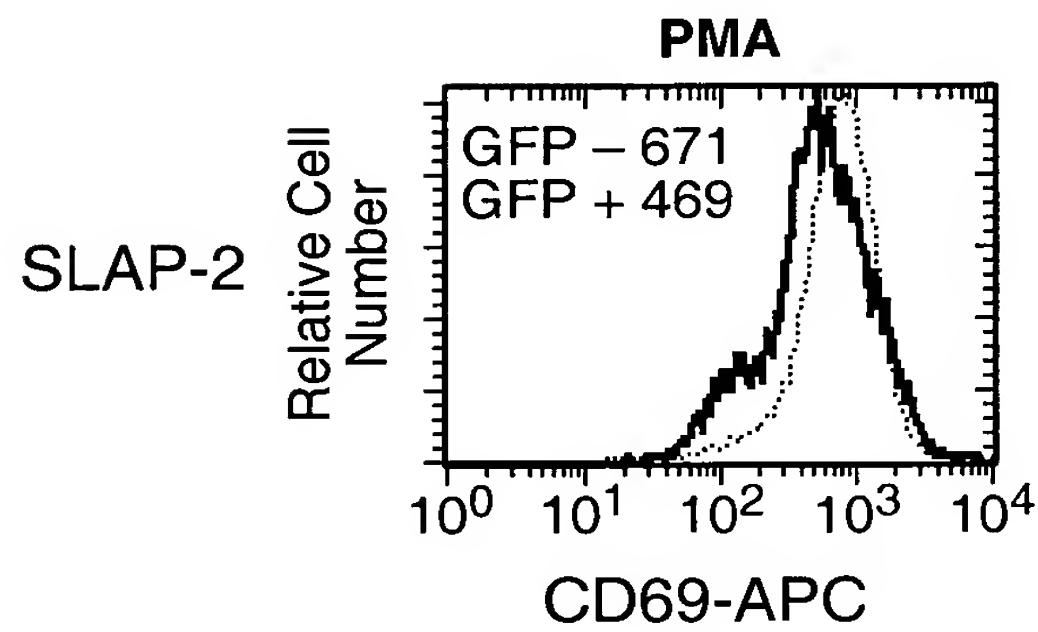
**FIG.\_6B-1**



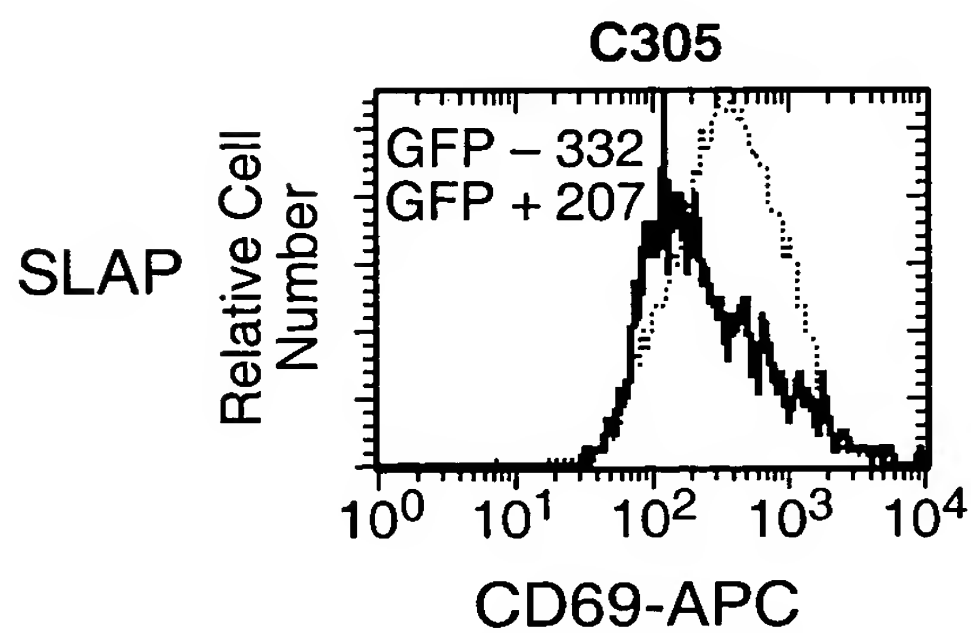
**FIG.\_6B-2**



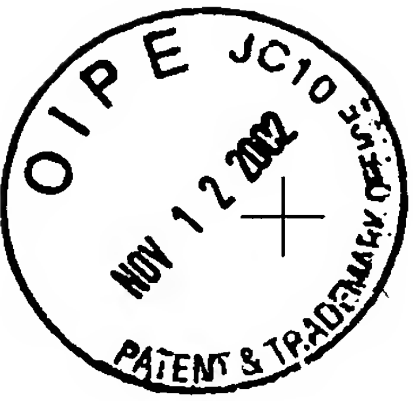
**FIG.\_6B-3**



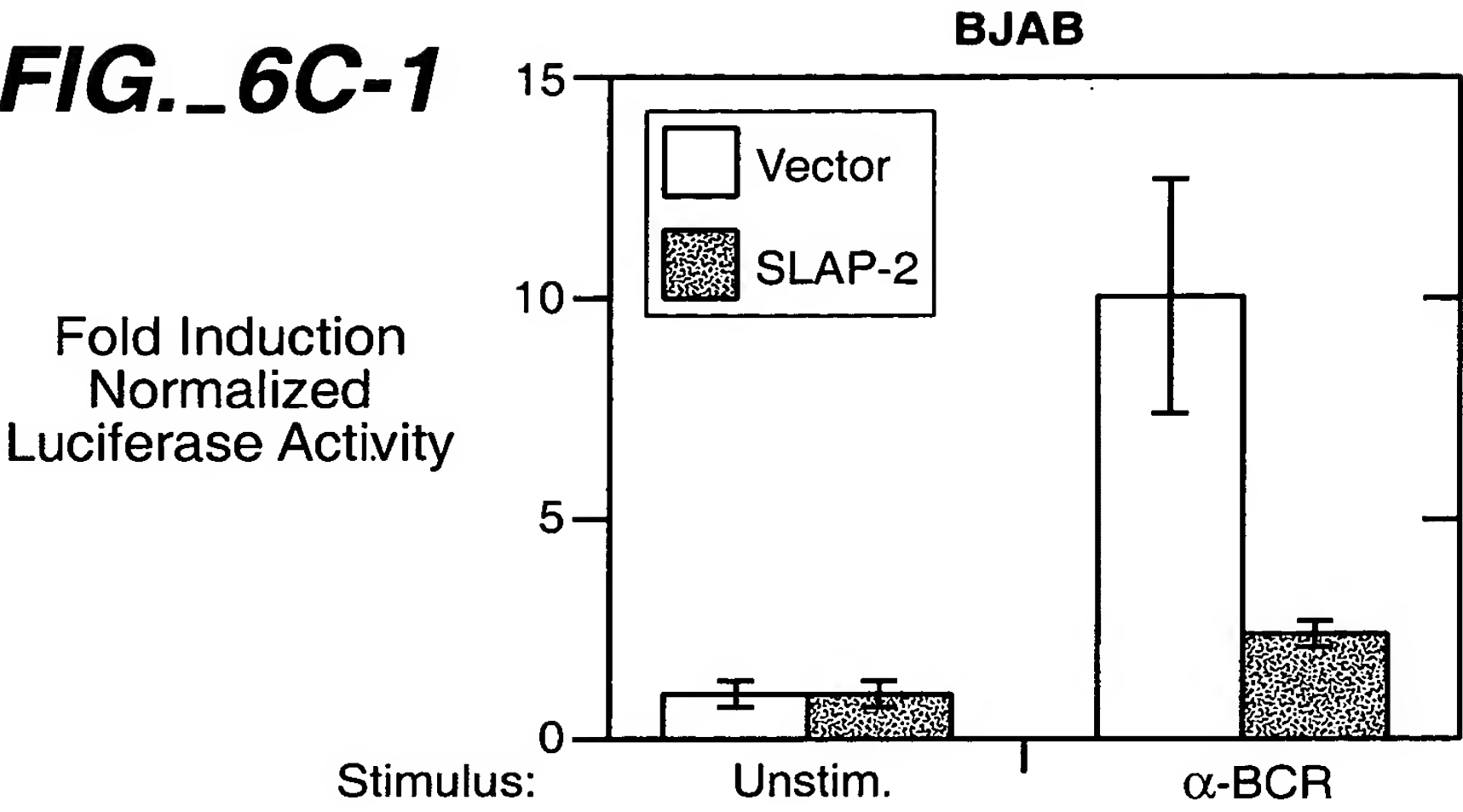
**FIG.\_6B-4**



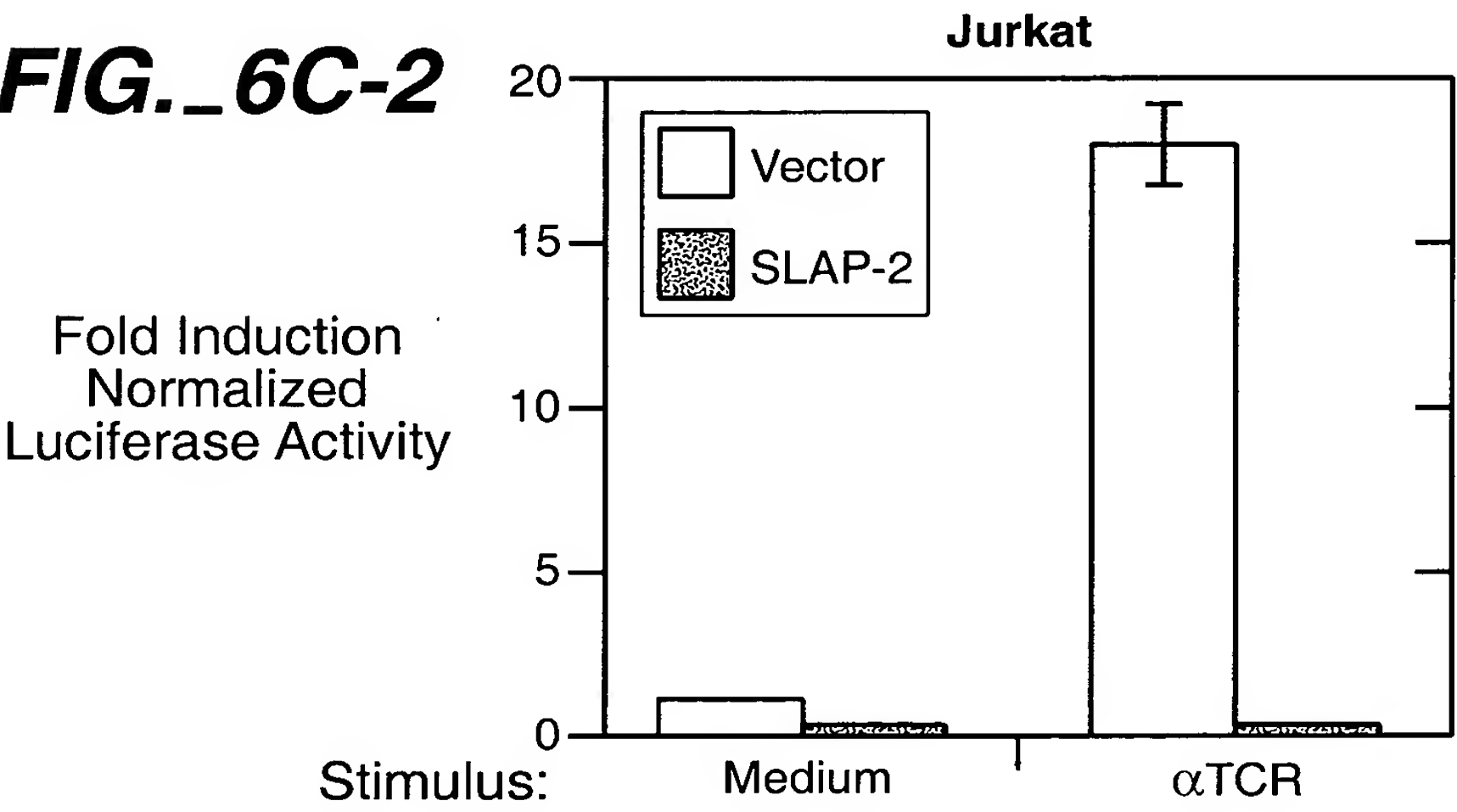
**FIG.\_6B-5**



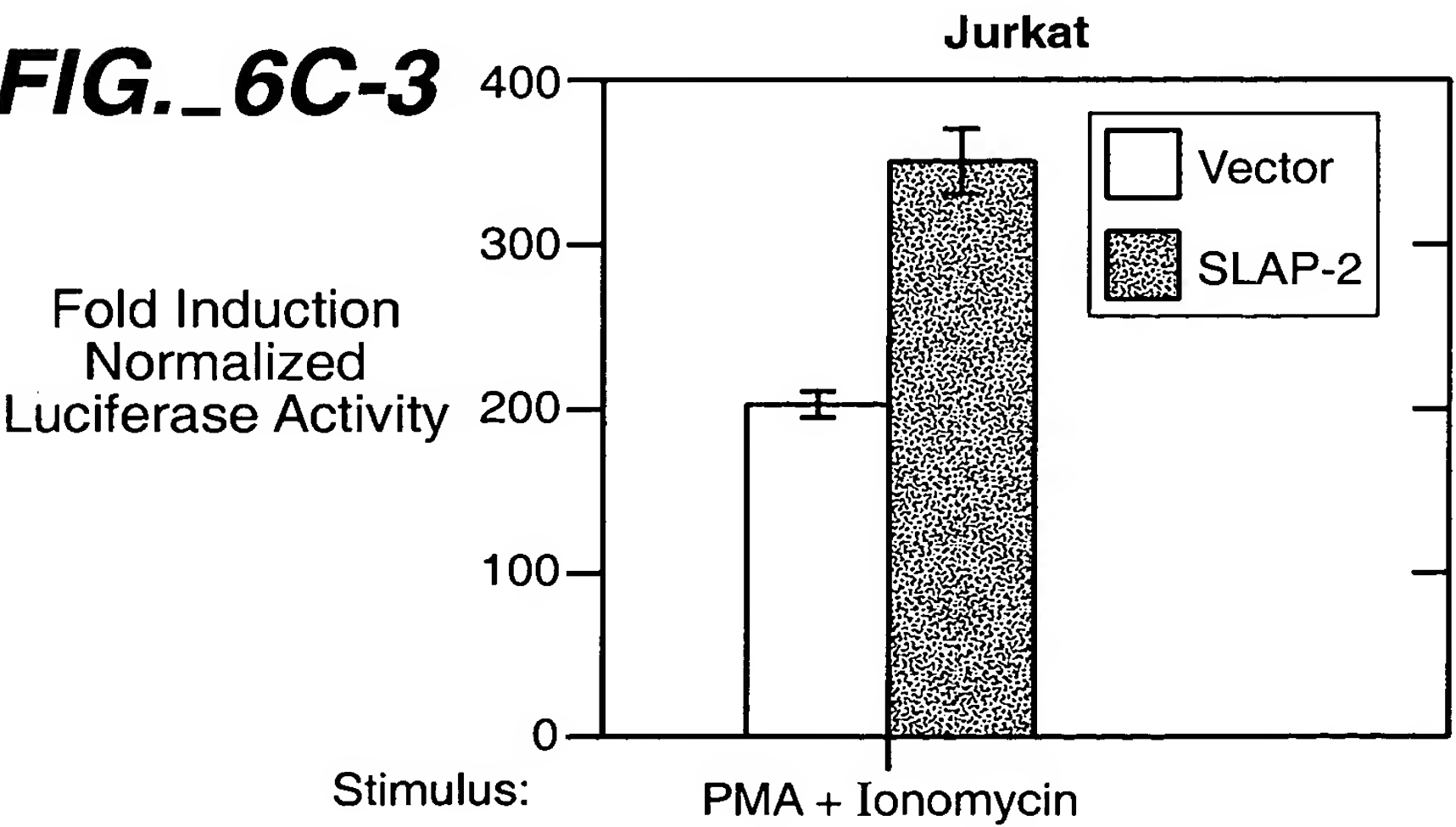
**FIG.\_6C-1**

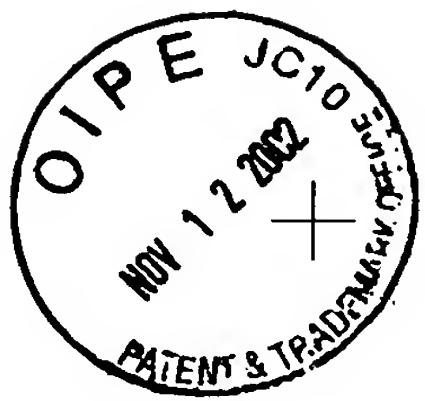


**FIG.\_6C-2**



**FIG.\_6C-3**

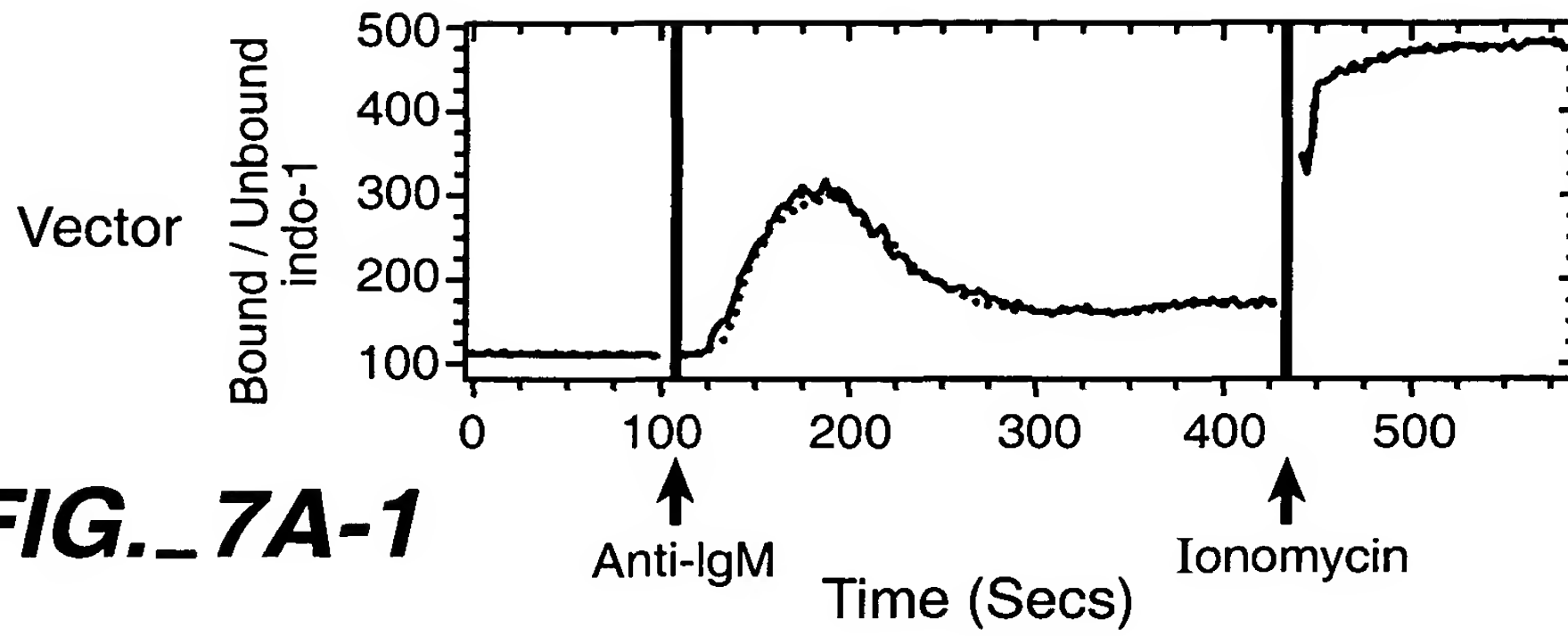




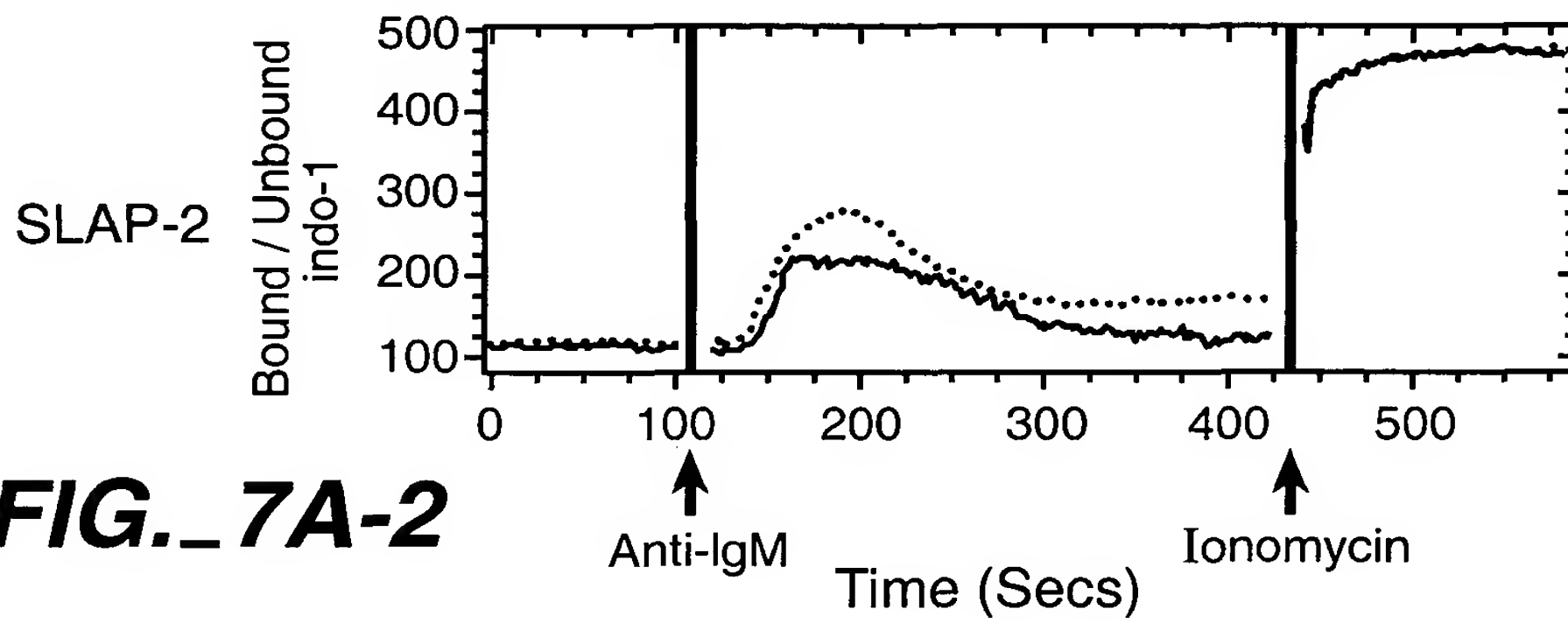
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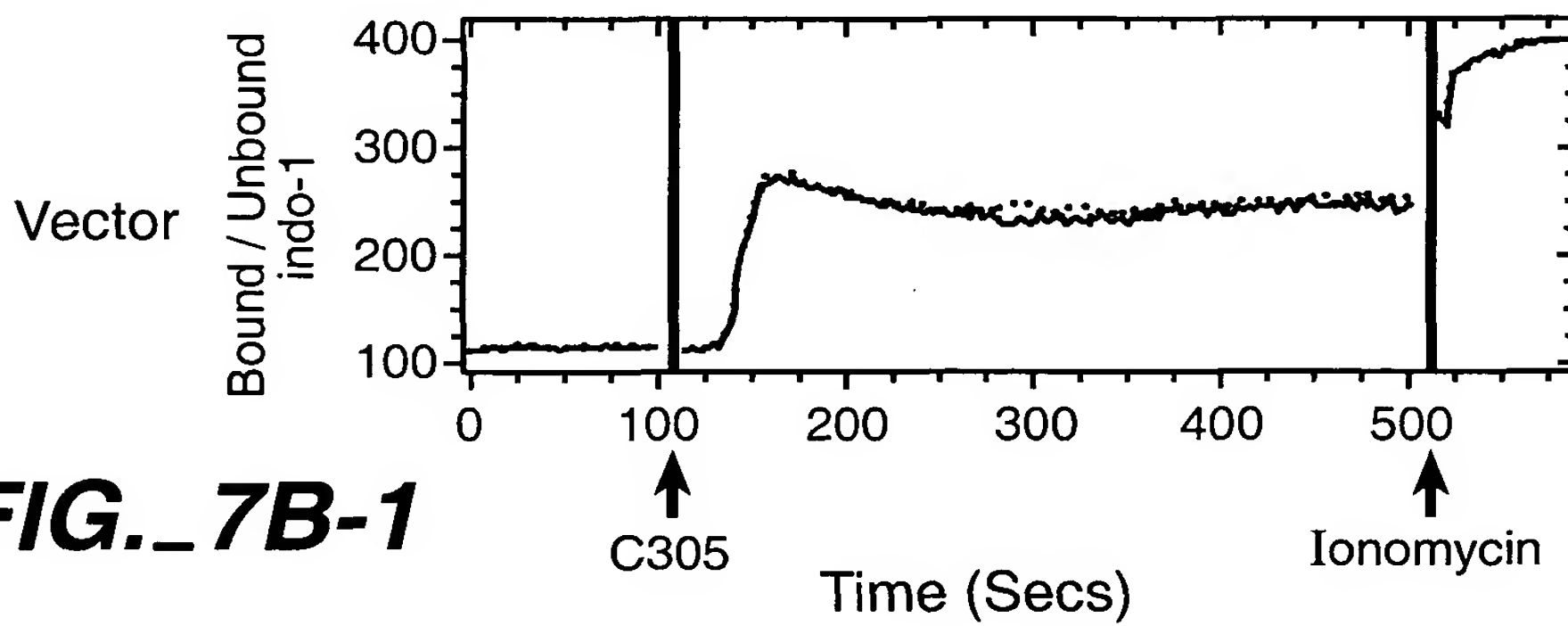
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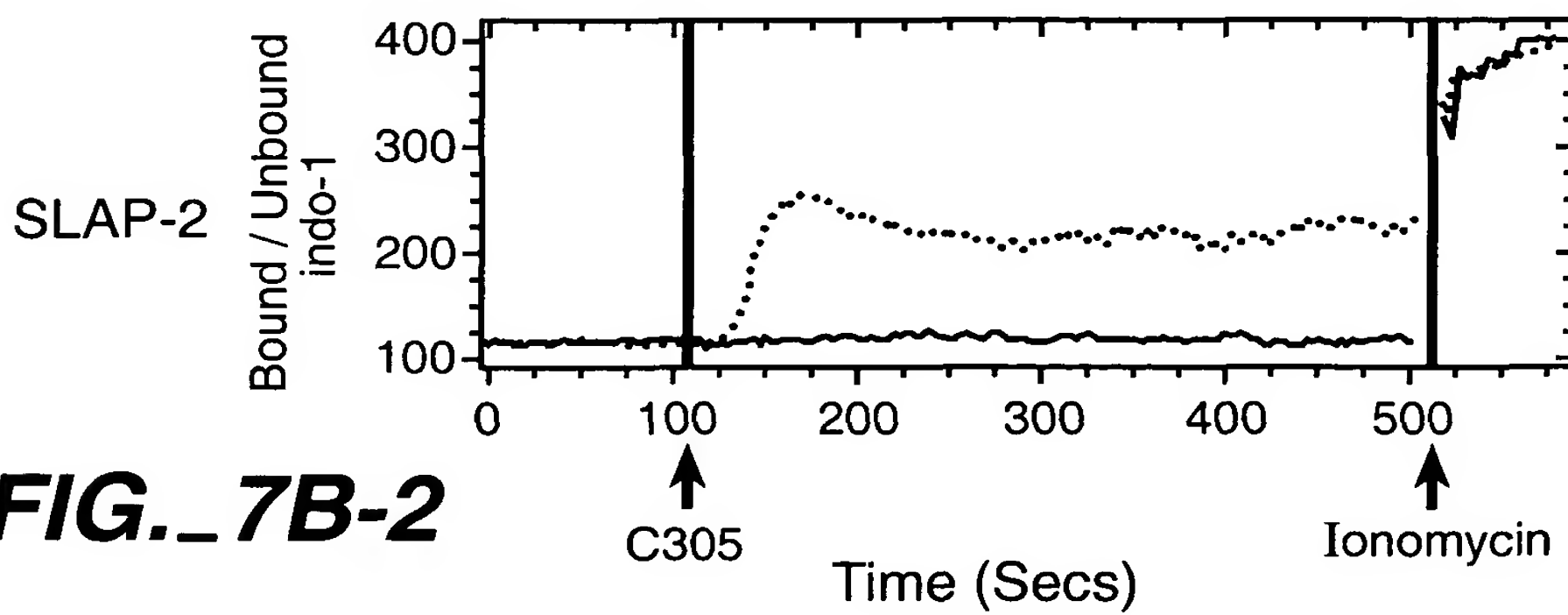
**FIG. 7A-1**



**FIG. 7A-2**

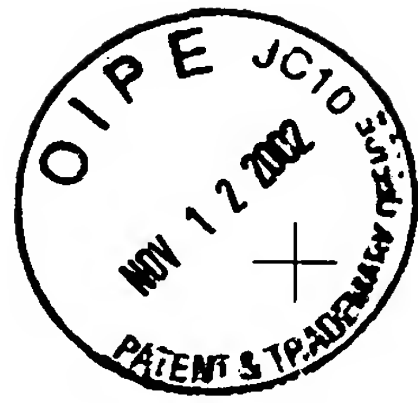


**FIG. 7B-1**



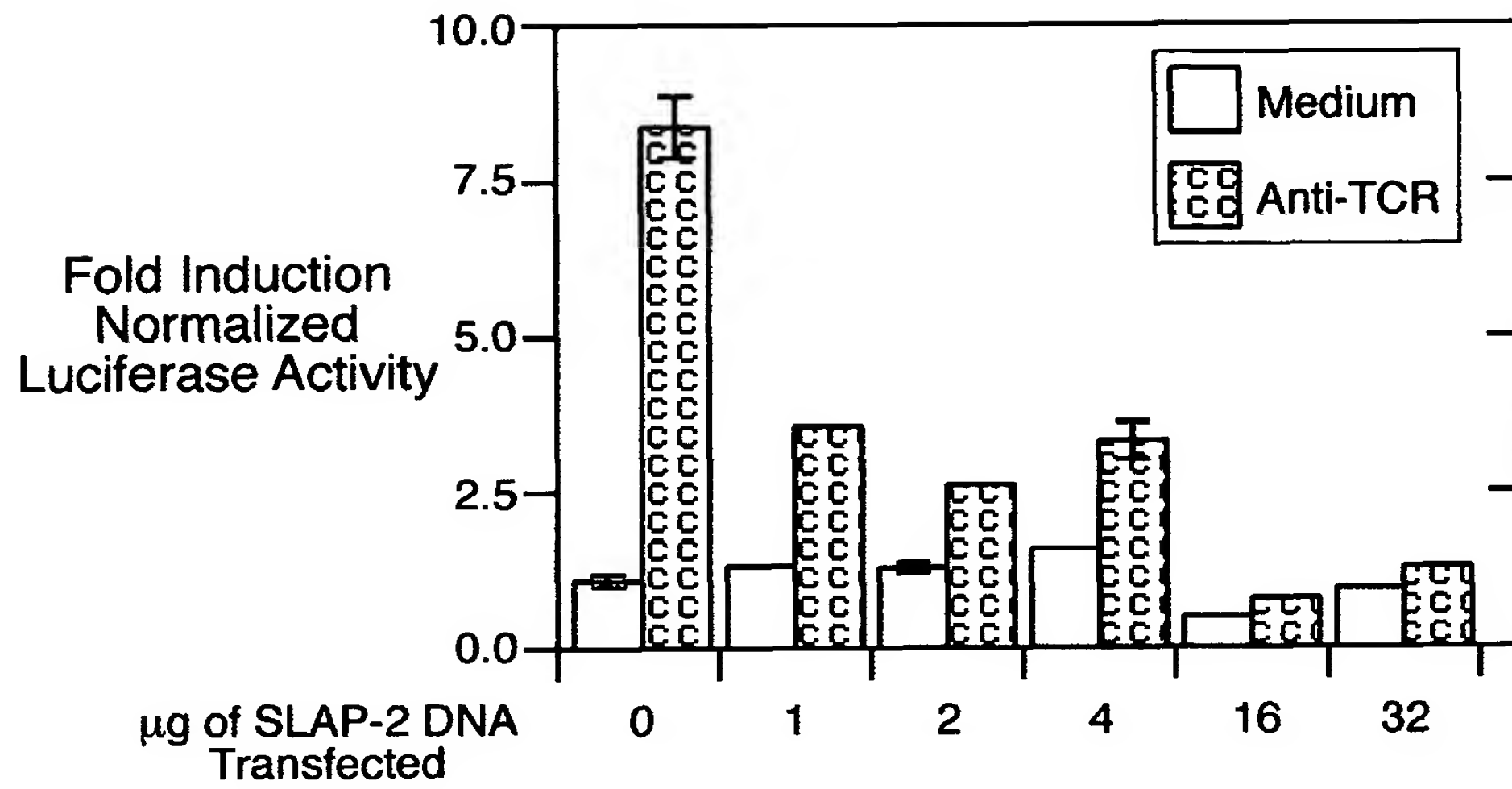
**FIG. 7B-2**



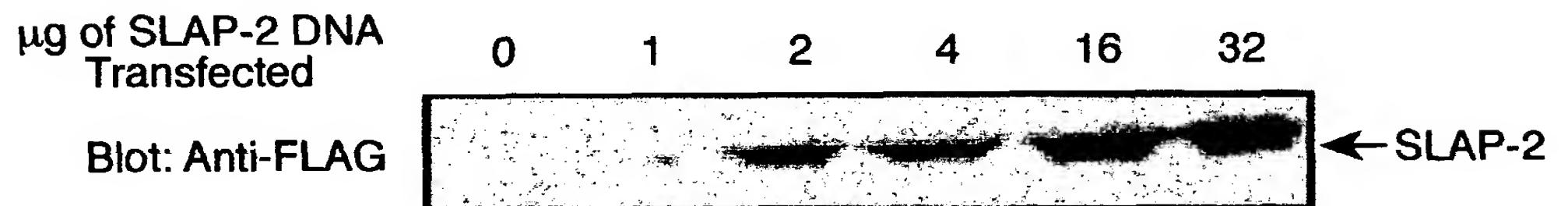


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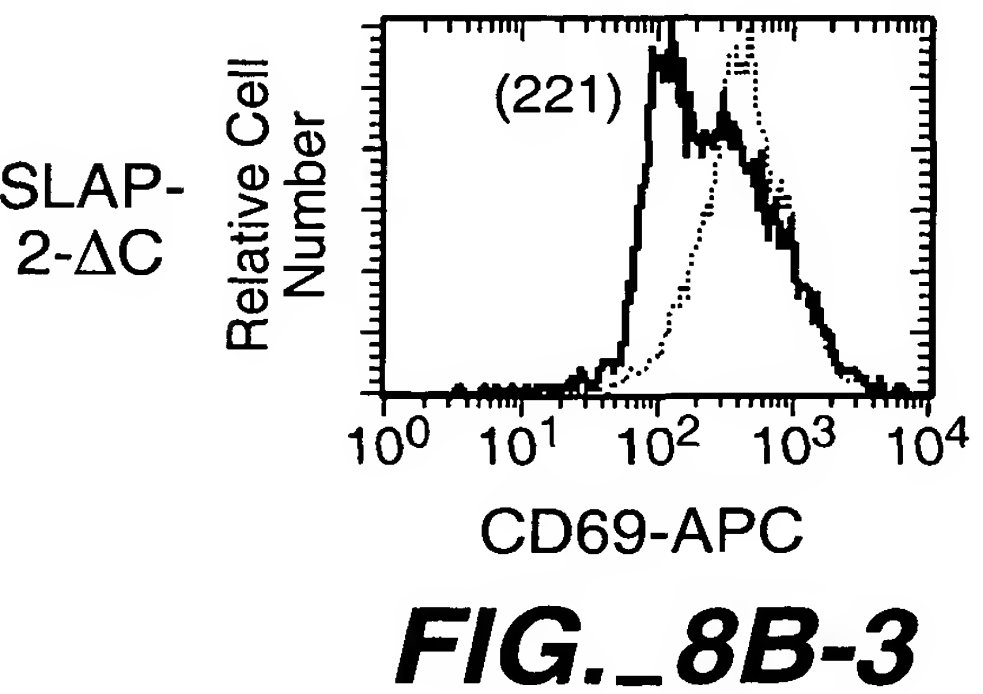
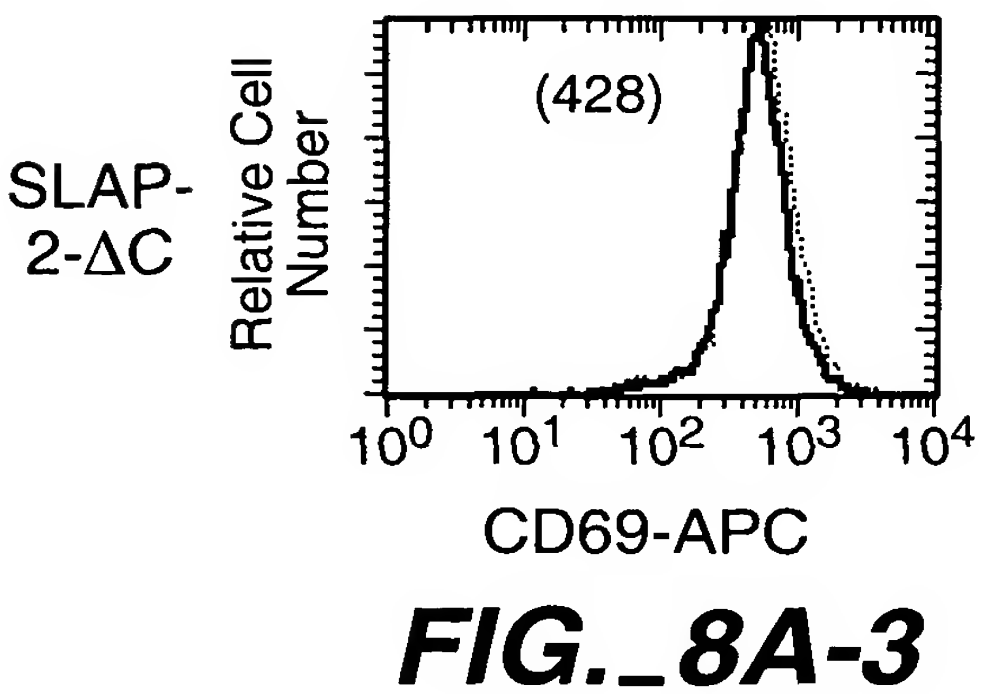
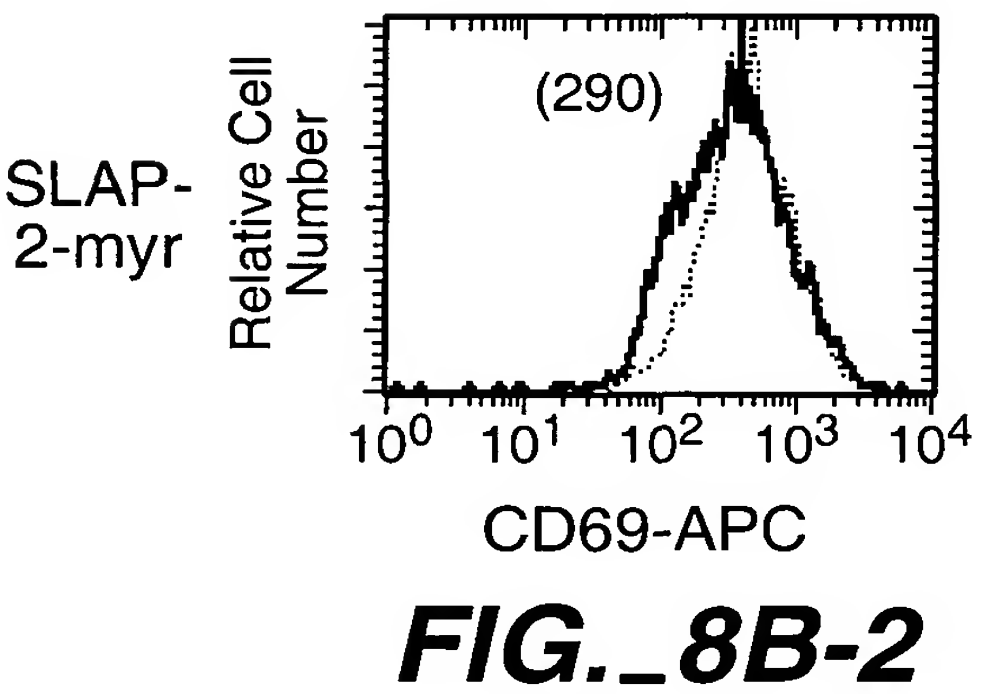
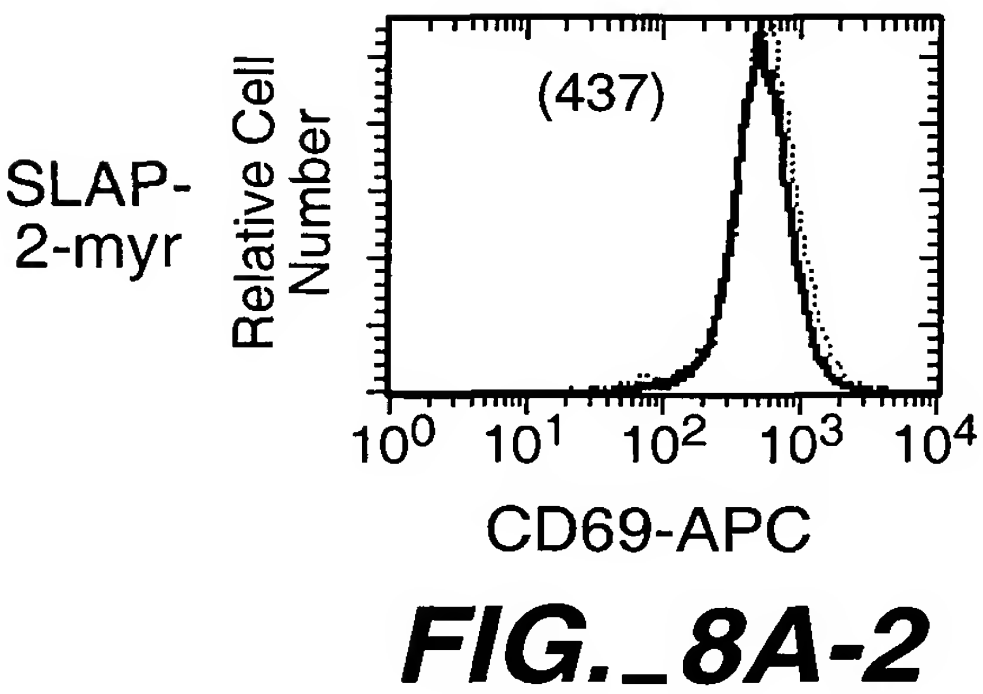
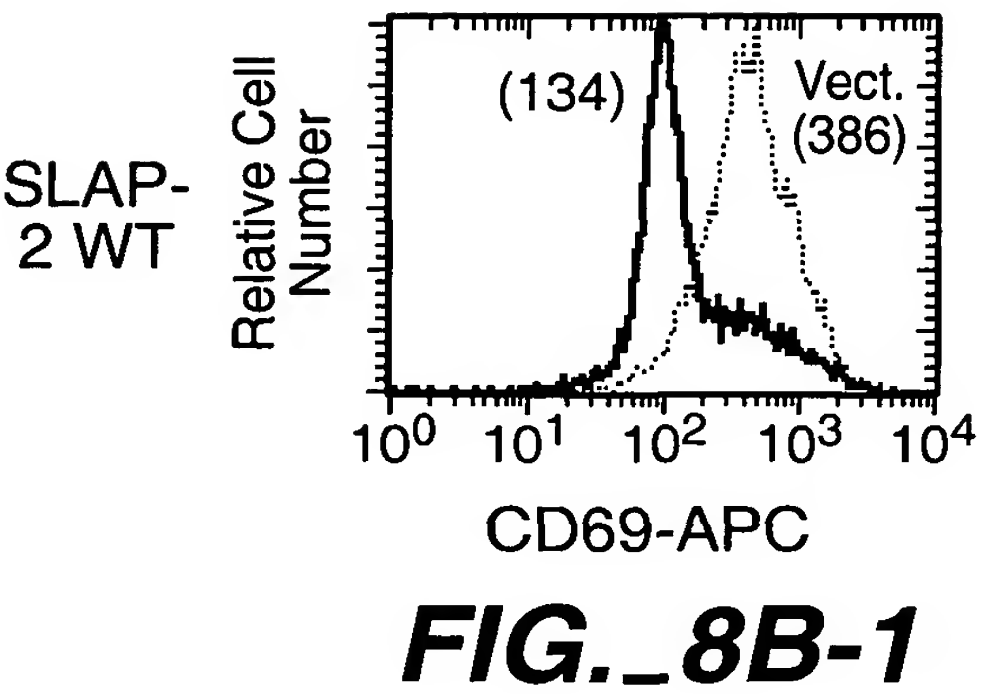
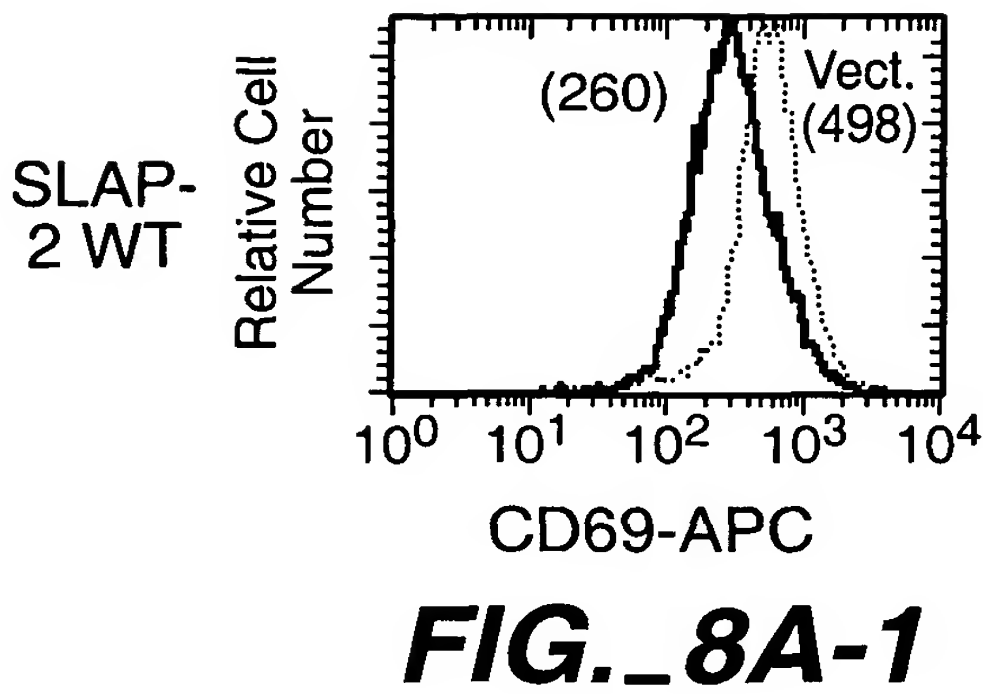
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**FIG.\_6D**

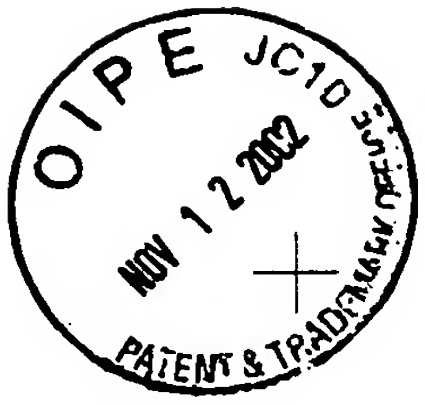


**FIG.\_6E**



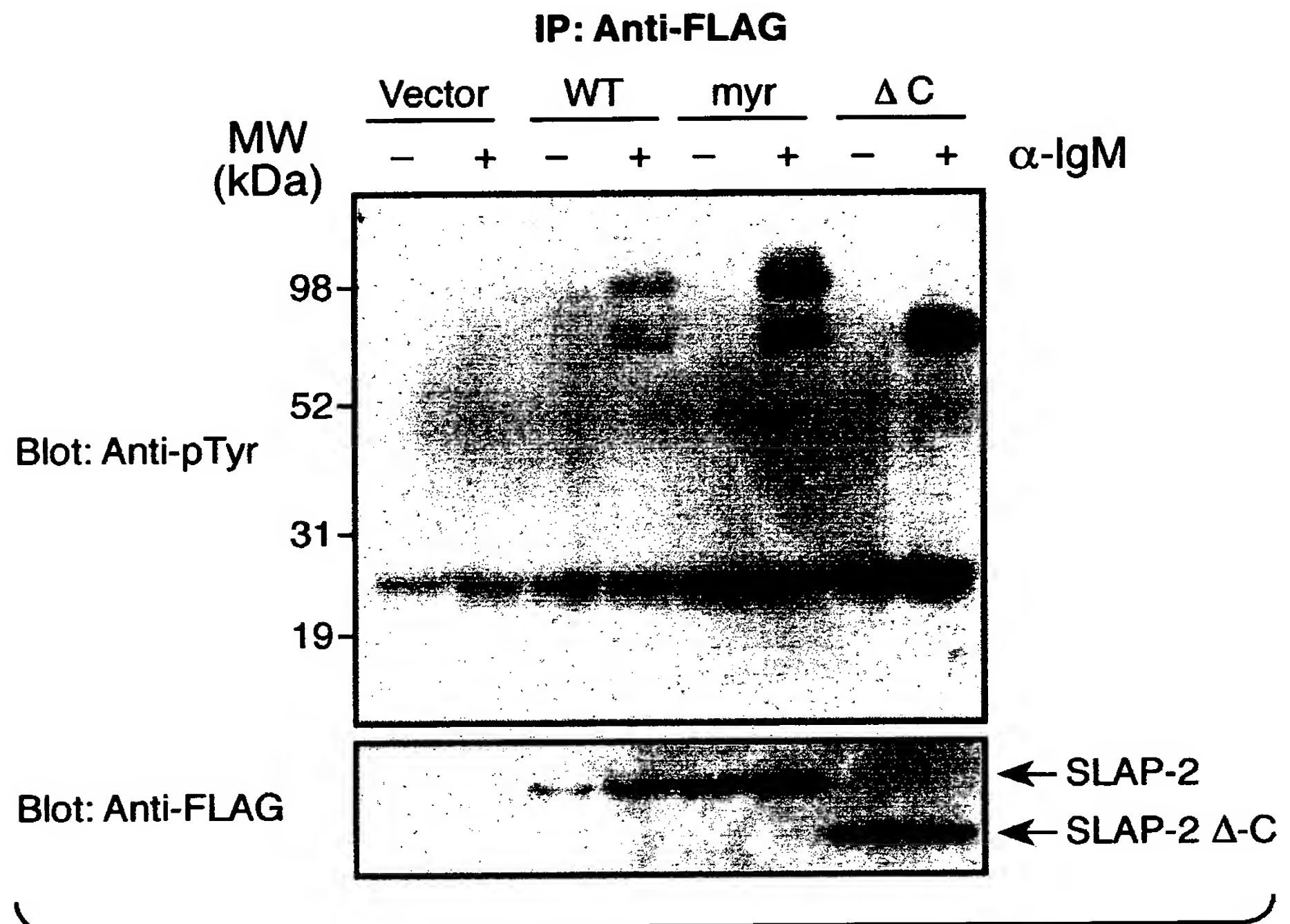
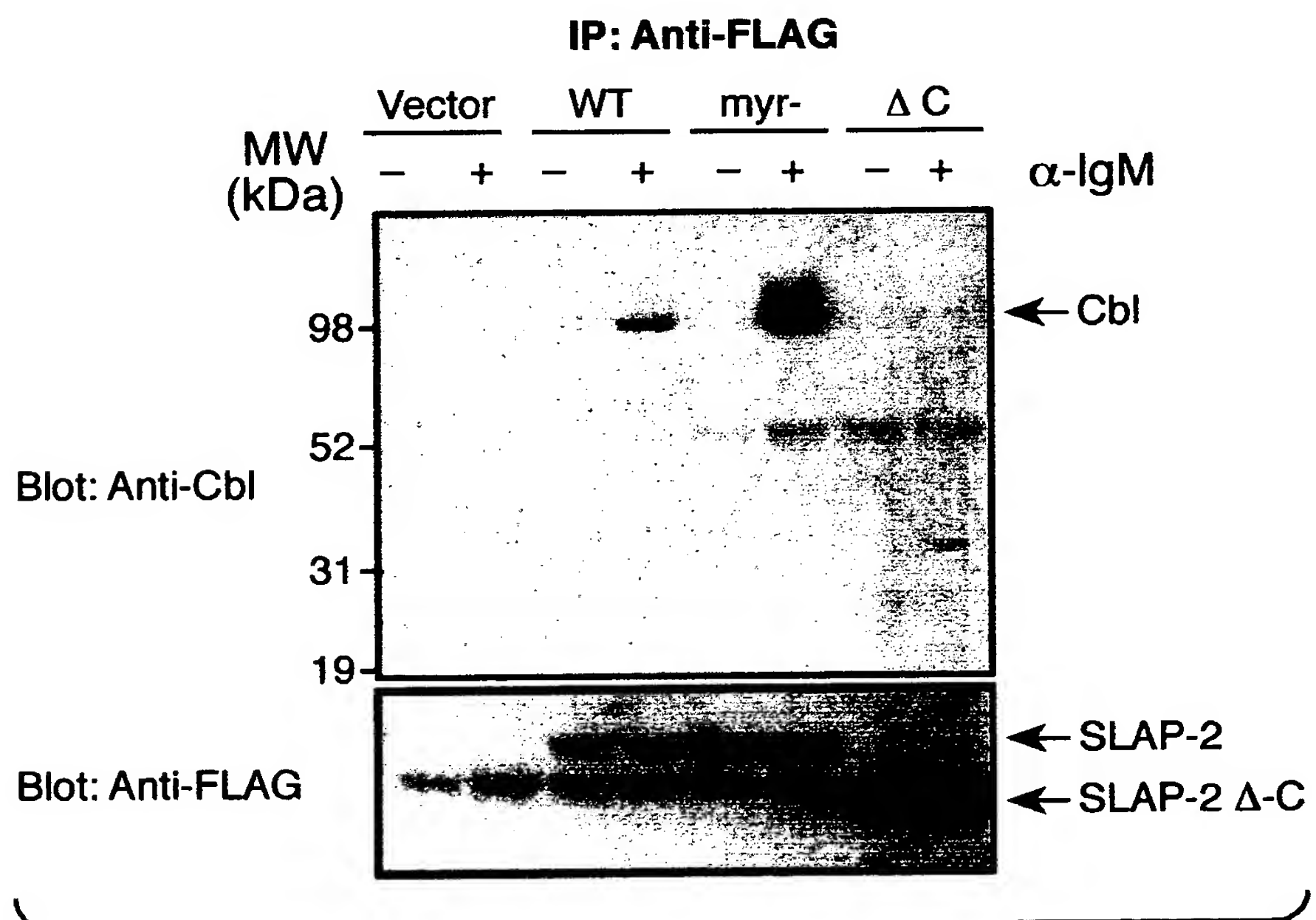
**FIG. 8E**





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**FIG.\_9A****FIG.\_9B**